

Datasheet: MCA497APCT

BATCH NUMBER 170842

Description:	RAT ANTI MOUSE F4/80:APC
Specificity:	F4/80
Format:	APC
Product Type:	Monoclonal Antibody
Clone:	Cl:A3-1
Isotype:	IgG2b
Quantity:	25 TESTS/0.25ml

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	▪			Neat - 1/10

Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

Target Species	Mouse						
Product Form	Purified IgG conjugated to Allophycocyanin (APC) - lyophilized						
Reconstitution	Reconstitute with 0.25ml distilled water						
Max Ex/Em	<table border="1"> <thead> <tr> <th>Fluorophore</th> <th>Excitation Max (nm)</th> <th>Emission Max (nm)</th> </tr> </thead> <tbody> <tr> <td>APC</td> <td>650</td> <td>661</td> </tr> </tbody> </table>	Fluorophore	Excitation Max (nm)	Emission Max (nm)	APC	650	661
Fluorophore	Excitation Max (nm)	Emission Max (nm)					
APC	650	661					
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant						
Buffer Solution	Phosphate buffered saline						
Preservative Stabilisers	0.09% Sodium Azide 1% Bovine Serum Albumin 5% Sucrose						

Immunogen	Thioglycollate stimulated peritoneal macrophages from C57BL/6 mice.
External Database Links	<p>UniProt: Q61549 Related reagents</p> <p>Entrez Gene: 13733 Emr1 Related reagents</p>
Synonyms	Gpf480
RRID	AB_2098197
Fusion Partners	Spleen cells from immunized HOB2 rats were fused with cells of the mouse NS1 myeloma cell line.
Specificity	<p>Rat anti Mouse F4/80 antibody, clone A3-1 recognizes the murine F4/80 antigen, a ~160 kDa cell surface glycoprotein member of the EGF-TM7 family of proteins which shares 68% overall amino acid identity with human EGF module-containing mucin-like hormone receptor 1 (EMR1).</p> <p>Expression of F4/80 is heterogeneous and is modulated during macrophage maturation and activation. The F4/80 antigen is expressed on a wide range of mature tissue macrophages including Kupffer cells, Langerhans cells, microglia, macrophages located in the gut lamina propria, peritoneal cavity, lung, thymus, bone marrow stroma and macrophages in the red pulp of the spleen (Hume, et al. 1984). F4/80 antigen is also expressed on a subpopulation of dendritic cells but is absent from macrophages located in T cell areas of the spleen and lymph node (Gordon, et al. 1994). The ligands and biological functions of the F4/80 antigen have not been fully determined but a role for F4/80 in the generation of efferent CD8+ve regulatory T cells is proposed (Lin, et al. 2005).</p> <p>Rat anti mouse F4/80 antibody, clone Cl:A3-1 modulates cytokine levels released in response to <i>Listeria monocytogenes</i> (Warschkau & Kiderlen, 1999).</p> <p>A Human anti-idiotypic Cl:A31 antibody, clone 17867 (HCA154) which binds to and blocks activity of Rat anti mouse F4/80 antibody, clone Cl:A3-1 is also available for use as a control in experiments utilizing clone A3-1.</p>
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 ⁶ cells in 100ul.
References	<ol style="list-style-type: none"> Warschkau, H. & Kiderlen, A.F. (1999) A monoclonal antibody directed against the murine macrophage surface molecule F4/80 modulates natural immune response to <i>Listeria monocytogenes</i>. J Immunol. 163 (6): 3409-16. Moore, K.J. et al. (2000) Divergent response to LPS and bacteria in CD14-deficient murine macrophages. J Immunol. 165 (8): 4272-80. Brown, G.D. et al. (2002) Dectin-1 is a major beta-glucan receptor on macrophages. J Exp Med. 196: 407-12. Biffi, A. et al. (2004) Correction of metachromatic leukodystrophy in the mouse model

- by transplantation of genetically modified hematopoietic stem cells. [J Clin Invest. 113: 1118-29.](#)
5. Dandekar, A.A. *et al.* (2004) Bystander CD8 T-cell-mediated demyelination is interferon-gamma-dependent in a coronavirus model of multiple sclerosis. [Am J Pathol. 164: 363-9.](#)
 6. Bevaart, L. *et al.* (2004) CpG oligodeoxynucleotides enhance FcγRI-mediated cross presentation by dendritic cells. [Int Immunol. 16: 1091-8.](#)
 7. Pizza, F.X. *et al.* (2005) Neutrophils contribute to muscle injury and impair its resolution after lengthening contractions in mice. [J Physiol. 562 \(Pt 3\): 899-913.](#)
 8. Lin, H.H. *et al.* (2005) The macrophage F4/80 receptor is required for the induction of antigen-specific efferent regulatory T cells in peripheral tolerance. [J Exp Med. 201 \(10\): 1615-25.](#)
 9. Chan, R.J. *et al.* (2005) Human somatic PTPN11 mutations induce hematopoietic cell hypersensitivity to granulocyte-macrophage colony stimulating factor [Blood. 105: 3737-3742.](#)
 10. Amano, H. *et al.* (2005) Absence of recipient CCR5 promotes early and increased allospecific antibody responses to cardiac allografts. [J Immunol. 174: 6499-508.](#)
 11. Anghelina, M. *et al.* (2006) Monocytes/macrophages cooperate with progenitor cells during neovascularization and tissue repair: conversion of cell columns into fibrovascular bundles. [Am J Pathol. 168: 529-41.](#)
 12. Anatelli, F. *et al.* (2006) Macrophage-targeted photosensitizer conjugate delivered by intratumoral injection. [Mol Pharm. 3: 654-64.](#)
 13. Dioszeghy, V. *et al.* (2008) 12/15-Lipoxygenase regulates the inflammatory response to bacterial products *in vivo*. [J Immunol. 181: 6514-24.](#)
 14. Buga, G.M. *et al.* (2008) D-4F reduces EO6 immunoreactivity, SREBP-1c mRNA levels, and renal inflammation in LDL receptor-null mice fed a Western diet. [J Lipid Res. 49: 192-205.](#)
 15. Mastrangelo, M.A. & Bowers, W.J. (2008) Detailed immunohistochemical characterization of temporal and spatial progression of Alzheimer's disease-related pathologies in male triple-transgenic mice. [BMC Neurosci. 9: 81.](#)
 16. Davies, M.H. *et al.* (2008) MCP-1 deficiency delays regression of pathologic retinal neovascularization in a model of ischemic retinopathy. [Invest Ophthalmol Vis Sci. 49: 4195-202.](#)
 17. Cunningham, O. *et al.* (2009) Microglia and the urokinase plasminogen activator receptor/uPA system in innate brain inflammation. [Glia. 57: 1802-14.](#)
 18. Zumsteg, A. *et al.* (2009) Myeloid cells contribute to tumor lymphangiogenesis. [PLoS One. 4:e7067.](#)
 19. Hemmi, H. *et al.* (2009) A new triggering receptor expressed on myeloid cells (Trem) family member, Trem-like 4, binds to dead cells and is a DNAX activation protein 12-linked marker for subsets of mouse macrophages and dendritic cells. [J Immunol. 182:1278-86.](#)
 20. Devey, L. *et al.* (2009) Tissue-resident macrophages protect the liver from ischemia reperfusion injury via a heme oxygenase-1-dependent mechanism. [Mol Ther. 17: 65-72.](#)
 21. González-Pérez, A. *et al.* (2009) Obesity-induced insulin resistance and hepatic steatosis are alleviated by omega-3 fatty acids: a role for resolvins and protectins. [FASEB J. 23: 1946-57.](#)
 22. Baratta, J.L. *et al.* (2009) Cellular organization of normal mouse liver: a histological, quantitative immunocytochemical, and fine structural analysis. [Histochem Cell Biol. 131: 713-26.](#)

23. deSchoolmeester, M.L. *et al.* (2009) The mannose receptor binds *Trichuris muris* excretory/secretory proteins but is not essential for protective immunity. [Immunology. 126: 246-55.](#)
24. Choi, K.M. *et al.* (2010) CD206-positive M2 macrophages that express heme oxygenase-1 protect against diabetic gastroparesis in mice. [Gastroenterology. 138 \(7\): 2399-409, 2409.e1.](#)
25. Seitz, O. *et al.* (2010) Wound Healing in Mice with High-Fat Diet- or ob Gene-Induced Diabetes-Obesity Syndromes: A Comparative Study [Exp Diabetes Res. 2010: 476969.](#)
26. Carlsson, F. *et al.* (2010) Host-detrimental role of Esx-1-mediated inflammasome activation in mycobacterial infection. [PLoS Pathog. 6\(5\):e1000895.](#)
27. Cougoule, C. *et al.* (2010) Three-dimensional migration of macrophages requires Hck for podosome organization and extracellular matrix proteolysis. [Blood. 115: 1444-52.](#)
28. Zeng, J. & Howard, J.C. (2010) Spontaneous focal activation of invariant natural killer T (iNKT) cells in mouse liver and kidney. [BMC Biol. 8: 142.](#)
29. Miao, E.A. *et al.* (2011) Caspase-1-induced pyroptosis is an innate immune effector mechanism against intracellular bacteria. [Nat Immunol. 11: 1136-42.](#)
30. Sun, G. *et al.* (2011) RIP2-mediated LKB1 deletion causes axon degeneration in the spinal cord and hind-limb paralysis. [Dis Model Mech. 4: 193-202.](#)
31. Wang, X. *et al.* (2011) Activation of the cholinergic antiinflammatory pathway ameliorates obesity-induced inflammation and insulin resistance [Endocrinology. 152: 836-46.](#)
32. Chauhan, V.S. *et al.* (2011) Prophylactic and therapeutic targeting of the neurokinin-1 receptor limits neuroinflammation in a murine model of pneumococcal meningitis. [J Immunol. 186: 7255-63.](#)
33. Baudy, A.R. *et al.* (2011) Non-invasive optical imaging of muscle pathology in mdx mice using cathepsin caged near-infrared imaging. [Mol Imaging Biol. 13: 462-70.](#)
34. Kato, J. *et al.* (2011) ADP-ribosylarginine hydrolase regulates cell proliferation and tumorigenesis. [Cancer Res. 71 \(15\): 5327-35.](#)
35. Ge, Q. *et al.* (2011) Adipokines identified as new downstream targets for adiponectin: lessons from adiponectin-overexpressing or -deficient mice. [Am J Physiol Endocrinol Metab. 301: E326-35.](#)
36. Dioszeghy, V. *et al.* (2011) Epicutaneous immunotherapy results in rapid allergen uptake by dendritic cells through intact skin and downregulates the allergen-specific response in sensitized mice. [J Immunol. 186: 5629-37.](#)
37. Muto, A. *et al.* (2011) Eph-B4 prevents venous adaptive remodeling in the adult arterial environment. [J Exp Med. 208 \(3\): 561-75.](#)
38. Tarallo, V. *et al.* (2011) The biflavonoid amentoflavone inhibits neovascularization preventing the activity of proangiogenic vascular endothelial growth factors. [J Biol Chem. 286: 19641-51.](#)
39. Kerschbaumer, R.J. *et al.* (2012) Neutralization of macrophage migration inhibitory factor (MIF) by fully human antibodies correlates with their specificity for the β -sheet structure of MIF. [J Biol Chem. 287 \(10\): 7446-55.](#)
40. Donaldson, D.S. *et al.* (2012) M cell-depletion blocks oral prion disease pathogenesis. [Mucosal Immunol. 5: 216-25.](#)
41. Gornicka, A. *et al.* (2012) Adipocyte hypertrophy is associated with lysosomal permeability both *in vivo* and *in vitro*: role in adipose tissue inflammation. [Am J Physiol Endocrinol Metab. 303: E597-606.](#)

42. Rivollier, A. *et al.* (2012) Inflammation switches the differentiation program of Ly6Chi monocytes from antiinflammatory macrophages to inflammatory dendritic cells in the colon. [J Exp Med. 209: 139-55.](#)
43. Hardison, S.E. *et al.* (2012) Protective immunity against pulmonary cryptococcosis is associated with STAT1-mediated classical macrophage activation. [J Immunol. 189 \(8\): 4060-8.](#)
44. Arima M *et al.* (2012) Involvement of periostin in regression of hyaloidvascular system during ocular development. [Invest Ophthalmol Vis Sci. 53 \(10\): 6495-503.](#)
45. Henare, K. *et al.* (2012) Dissection of stromal and cancer cell-derived signals in melanoma xenografts before and after treatment with DMXAA. [Br J Cancer. 106 \(6\): 1134-47.](#)
46. Akbarshahi, H. *et al.* (2012) Enrichment of Murine CD68(+)CCR2(+) and CD68(+)CD206(+) Lung Macrophages in Acute Pancreatitis-Associated Acute Lung Injury. [PLoS One. 7: e42654.](#)
47. Bonde, A.K. *et al.* (2012) Intratumoral macrophages contribute to epithelial-mesenchymal transition in solid tumors. [BMC Cancer. 12: 35.](#)
48. Ubogu, E.E. *et al.* (2012) Behavioral, electrophysiological, and histopathological characterization of a severe murine chronic demyelinating polyneuritis model. [J Peripher Nerv Syst. 17 \(1\): 53-61.](#)
49. Banda NK *et al.* (2012) Role of C3a receptors, C5a receptors, and complement protein C6 deficiency in collagen antibody-induced arthritis in mice. [J Immunol. 188 \(3\): 1469-78.](#)
50. Tamaki, S. *et al.* (2013) Interleukin-16 promotes cardiac fibrosis and myocardial stiffening in heart failure with preserved ejection fraction. [PLoS One. 8: e68893.](#)
51. Jain, U. *et al.* (2013) The C5a receptor antagonist PMX205 ameliorates experimentally induced colitis associated with increased IL-4 and IL-10. [Br J Pharmacol. 168 \(2\): 488-501.](#)
52. Dong, Z. *et al.* (2013) Specific inhibition of serine/arginine-rich protein kinase attenuates choroidal neovascularization. [Mol Vis. 19: 536-43.](#)
53. Uaesoontrachoon, K. *et al.* (2013) Osteopontin deficiency delays inflammatory infiltration and the onset of muscle regeneration in a mouse model of muscle injury. [Dis Model Mech. 6: 197-205.](#)
54. Nygaard, V. *et al.* (2014) Melanoma brain colonization involves the emergence of a brain-adaptive phenotype. [Oncoscience. 1 \(1\): 82-94.](#)
55. Kihira, Y. *et al.* (2014) Deletion of hypoxia-inducible factor-1 α in adipocytes enhances glucagon-like Peptide-1 secretion and reduces adipose tissue inflammation. [PLoS One. 9\(4\):e93856.](#)
56. Zhang, M.Z. *et al.* (2015) Inhibition of cyclooxygenase-2 in hematopoietic cells results in salt-sensitive hypertension. [J Clin Invest. 125 \(11\): 4281-94.](#)
57. Chinzei, N. *et al.* (2015) P21 deficiency delays regeneration of skeletal muscular tissue. [PLoS One. 10 \(5\): e0125765.](#)
58. Sumiyoshi, M. *et al.* (2015) Antitumor and antimetastatic actions of xanthoangelol and 4-hydroxyderricin isolated from *Angelica keiskei* roots through the inhibited activation and differentiation of M2 macrophages. [Phytomedicine. 22 \(7-8\): 759-67.](#)
59. Kim, M. *et al.* (2015) Progression of Alport Kidney Disease in Col4a3 Knock Out Mice Is Independent of Sex or Macrophage Depletion by Clodronate Treatment. [PLoS One. 10 \(11\): e0141231.](#)

60. Lei, B. *et al.* (2016) Neuroprotective pentapeptide CN-105 improves functional and histological outcomes in a murine model of intracerebral hemorrhage. [Sci Rep. 6: 34834.](#)
61. Nagase, M. *et al.* (2016) Deletion of Rac1GTPase in the Myeloid Lineage Protects against Inflammation-Mediated Kidney Injury in Mice. [PLoS One. 11 \(3\): e0150886.](#)
62. Pepe, G. *et al.* (2017) Self-renewal and phenotypic conversion are the main physiological responses of macrophages to the endogenous estrogen surge. [Sci Rep. 7: 44270.](#)
63. Glastras, S.J. *et al.* (2017) The renal consequences of maternal obesity in offspring are overwhelmed by postnatal high fat diet. [PLoS One. 12 \(2\): e0172644.](#)
64. Sogawa, Y. *et al.* (2017) Infiltration of M1, but not M2, macrophages is impaired after unilateral ureter obstruction in Nrf2-deficient mice. [Sci Rep. 7 \(1\): 8801.](#)
65. Crompton, M. *et al.* (2017) A mutation in Nischarin causes otitis media via LIMK1 and NF- κ B pathways. [PLoS Genet. 13 \(8\): e1006969.](#)
66. Suzuki, Y. *et al.* (2017) Requisite role of vasohibin-2 in spontaneous gastric cancer formation and accumulation of cancer-associated fibroblasts. [Cancer Sci. 108 \(12\): 2342-51.](#)
67. Kawada, S. *et al.* (2017) Impairment of cold injury-induced muscle regeneration in mice receiving a combination of bone fracture and alendronate treatment. [PLoS One. 12 \(7\): e0181457.](#)
68. Peng, Y. (2018) B cell responses to apoptotic cells in MFG-E8^{-/-} mice. [PLoS One. 13 \(10\): e0205172.](#)
69. Maydan, O. *et al.* (2018) Uromodulin deficiency alters tubular injury and interstitial inflammation but not fibrosis in experimental obstructive nephropathy. [Physiol Rep. 6 \(6\): e13654.](#)
70. Ubil, E. *et al.* (2018) Tumor-secreted Pros1 inhibits macrophage M1 polarization to reduce antitumor immune response. [J Clin Invest. 128 \(6\): 2356-69.](#)
71. Morimoto, A. *et al.* (2019) Hemophagocytosis induced by *Leishmania donovani* infection is beneficial to parasite survival within macrophages. [PLoS Negl Trop Dis. 13 \(11\): e0007816.](#)
72. Wang, H. *et al.* (2019) Embelin can protect mice from thioacetamide-induced acute liver injury. [Biomed Pharmacother. 118: 109360.](#)
73. Hanson, K.M. *et al.* (2019) Apoptosis Resistance in Fibroblasts Precedes Progressive Scarring in Pulmonary Fibrosis and Is Partially Mediated by Toll-Like Receptor 4 Activation. [Toxicol Sci. 170 \(2\): 489-498.](#)
74. Teixeira, D.E. *et al.* (2019) Lithium ameliorates tubule-interstitial injury through activation of the mTORC2/protein kinase B pathway. [PLoS One. 14 \(4\): e0215871.](#)
75. WasgewatteWijesinghe, D.K. *et al.* (2019) Normal inflammation and regeneration of muscle following injury require osteopontin from both muscle and non-muscle cells. [Skelet Muscle. 9 \(1\): 6.](#)
76. Saitoh, K. *et al.* (2019) Effect of dietary fish oil on enhanced inflammation and disturbed lipophagy in white adipose tissue caused by a high fat diet [Fisheries Science. 86 \(1\): 187-96.](#)
77. Ehsanipour, A. *et al.* (2019) Injectable, Hyaluronic Acid-Based Scaffolds with Macroporous Architecture for Gene Delivery. [Cell Mol Bioeng. 12 \(5\): 399-413.](#)
78. Talamini, L. *et al.* (2019) Repeated administration of the food additive E171 to mice results in accumulation in intestine and liver and promotes an inflammatory status. [Nanotoxicology. 13 \(8\): 1087-101.](#)

79. Alendar, A. *et al.* (2020) Gene expression regulation by the Chromodomain helicase DNA-binding protein 9 (CHD9) chromatin remodeler is dispensable for murine development. [PLoS One. 15 \(5\): e0233394.](#)
80. Graff, E.C. *et al.* (2020) The Absence of Adiponectin Alters Niacin's Effects on Adipose Tissue Inflammation in Mice. [Nutrients. 12 \(8\): 2427.](#)
81. Roche-Molina, M. *et al.* (2020) The pharmaceutical solvent N-methyl-2-pyrrolidone (NMP) attenuates inflammation through Krüppel-like factor 2 activation to reduce atherogenesis. [Sci Rep. 10 \(1\): 11636.](#)
82. Jansen, M.P.B. *et al.* (2020) Experimental thrombocytopenia does not affect acute kidney injury 24 hours after renal ischemia reperfusion in mice. [Platelets. 31 \(3\): 383-391.](#)
83. Wu, C.Y. *et al.* (2020) Tris DBA ameliorates IgA nephropathy by blunting the activating signal of NLRP3 inflammasome through SIRT1- and SIRT3-mediated autophagy induction. [J Cell Mol Med. 24 \(23\): 13609-22.](#)
84. Liguori, M. *et al.* (2020) The soluble glycoprotein NMB (GPNMB) produced by macrophages induces cancer stemness and metastasis via CD44 and IL-33. [Cell Mol Immunol. 18 \(3\): 711-22.](#)
85. Robichon, K. *et al.* (2020) Identification of Interleukin1 β as an Amplifier of Interferon alpha-induced Antiviral Responses. [PLoS Pathog. 16 \(10\): e1008461.](#)
86. Zhang, J. *et al.* (2020) Triptolide attenuates renal damage by limiting inflammatory responses in DOCA-salt hypertension. [Int Immunopharmacol. 89 \(Pt A\): 107035.](#)
87. Hoover, A.A. *et al.* (2020) Increased canonical NF-kappaB signaling specifically in macrophages is sufficient to limit tumor progression in syngeneic murine models of ovarian cancer. [BMC Cancer. 20 \(1\): 970.](#)
88. Ni, J. *et al.* (2020) Dual deficiency of angiotensin-converting enzyme-2 and Mas receptor enhances angiotensin II-induced hypertension and hypertensive nephropathy. [J Cell Mol Med. 24 \(22\): 13093-13103.](#)
89. Munro, D.A.D. *et al.* (2020) CNS macrophages differentially rely on an intronic *Csf1r* enhancer for their development. [Development. 147 \(23\): dev194449.](#)
90. Lai, K. *et al.* (2020) Triptolide attenuates laser-induced choroidal neovascularization via M2 macrophage in a mouse model. [Biomed Pharmacother. 129: 110312.](#)
91. Choi, E.W. *et al.* (2020) Fas mutation reduces obesity by increasing IL-4 and IL-10 expression and promoting white adipose tissue browning. [Sci Rep. 10 \(1\): 12001.](#)
92. Kerber, E.L. *et al.* (2020) The Importance of Hypoxia-Inducible Factors (HIF-1 and HIF-2) for the Pathophysiology of Inflammatory Bowel Disease. [Int J Mol Sci. 21 \(22\): 8551.](#)
93. Creed, J. *et al.* (2020) Argon Inhalation for 24 h After Closed-Head Injury Does not Improve Recovery, Neuroinflammation, or Neurologic Outcome in Mice. [Neurocrit Care. 34 \(3\): 833-43.](#)
94. Jablonski, K. *et al.* (2020) Physical activity prevents acute inflammation in a gout model by downregulation of TLR2 on circulating neutrophils as well as inhibition of serum CXCL1 and is associated with decreased pain and inflammation in gout patients. [PLoS One. 15 \(10\): e0237520.](#)
95. Bae, C.R. *et al.* (2020) The endothelial dysfunction blocker CU06-1004 ameliorates choline-deficient L-amino acid diet-induced non-alcoholic steatohepatitis in mice. [PLoS One. 15 \(12\): e0243497.](#)
96. Hitchcock, J.R. *et al.* (2020) Dynamic architectural interplay between leucocytes and mammary epithelial cells. [FEBS J. 287 \(2\): 250-66.](#)

97. Ellman, D.G. *et al.* (2020) Conditional Ablation of Myeloid TNF Improves Functional Outcome and Decreases Lesion Size after Spinal Cord Injury in Mice. [Cells. 9 \(11\): 2407.](#)
98. Yamashita, S. *et al.* (2020) Essential roles of oncostatin M receptor β signaling in renal crystal formation in mice. [Sci Rep. 10 \(1\): 17150.](#)
99. Takahashi, M. *et al.* (2020) Macrophages fine-tune pupil shape during development. [Dev Biol. 464 \(2\): 137-44.](#)
100. Wong, M.Y. *et al.* (2020) Semicarbazide-sensitive amine oxidase inhibition ameliorates albuminuria and glomerulosclerosis but does not improve tubulointerstitial fibrosis in diabetic nephropathy. [PLoS One. 15 \(6\): e0234617.](#)
101. Bender, L.H. *et al.* (2020) Intratumoral Administration of a Novel Cytotoxic Formulation with Strong Tissue Dispersive Properties Regresses Tumor Growth and Elicits Systemic Adaptive Immunity in *In Vivo* Models. [Int J Mol Sci. 21 \(12\): 4493.](#)
102. Fan, A. *et al.* (2020) High-salt diet decreases mechanical thresholds in mice that is mediated by a CCR2-dependent mechanism. [J Neuroinflammation. 17 \(1\): 179.](#)
103. Fukushima, H. *et al.* (2020) Changes in Function and Dynamics in Hepatic and Splenic Macrophages in Non-Alcoholic Fatty Liver Disease. [Clin Exp Gastroenterol. 13: 305-14.](#)
104. Otobe, S. *et al.* (2020) CX3CR1 Deficiency Attenuates DNFB-Induced Contact Hypersensitivity Through Skewed Polarization Towards M2 Phenotype in Macrophages. [Int J Mol Sci. 21 \(19\): 7401.](#)
105. Hayashi, Y. *et al.* (2020) Cochlear supporting cells function as macrophage-like cells and protect audiosensory receptor hair cells from pathogens. [Sci Rep. 10 \(1\): 6740.](#)
106. Tachibana, M. *et al.* (2020) Ablation of IL-17A leads to severe colitis in IL-10-deficient mice: implications of myeloid-derived suppressor cells and NO production. [Int Immunol. 32 \(3\): 187-201.](#)
107. Sasaki, Y. *et al.* (2020) Pemafibrate, a selective PPAR α modulator, prevents non-alcoholic steatohepatitis development without reducing the hepatic triglyceride content. [Sci Rep. 10 \(1\): 7818.](#)
108. Zhong, L. *et al.* (2020) RANKL Is Involved in Runx2-Triggered Hepatic Infiltration of Macrophages in Mice with NAFLD Induced by a High-Fat Diet. [Biomed Res Int. 2020: 6953421.](#)
109. Park, J.S. *et al.* (2020) Clusterin overexpression protects against western diet-induced obesity and NAFLD. [Sci Rep. 10 \(1\): 17484.](#)
110. Tseng, W-C. *et al.* (2020) Trichostatin A Alleviates Renal Interstitial Fibrosis Through Modulation of the M2 Macrophage Subpopulation [Int J Mol Sci. 21\(17\):E5966.](#)
111. Guo, X. *et al.* (2020) Adoptive transfer of Pfkfb3-disrupted hematopoietic cells to wild-type mice exacerbates diet-induced hepatic steatosis and inflammation [Liver Res. 4 \(3\): 136-44.](#)
112. Laurien, L. *et al.* (2020) Autophosphorylation at serine 166 regulates RIP kinase 1-mediated cell death and inflammation. [Nat Commun. 11 \(1\): 1747.](#)
113. Dong, L. *et al.* (2021) Deletion of Smad3 protects against diabetic cardiomyopathy in db/db mice. [J Cell Mol Med. 25 \(10\): 4860-9.](#)
114. Zhang, J. *et al.* (2021) A pulsatile release platform based on photo-induced imine-crosslinking hydrogel promotes scarless wound healing. [Nat Commun. 12 \(1\): 1670.](#)
115. Zhu, B. *et al.* (2021) Adipose tissue inflammation and systemic insulin resistance in mice with diet-induced obesity is possibly associated with disruption of PFKFB3 in hematopoietic cells. [Lab Invest. 101 \(3\): 328-40.](#)

116. Sugita, J. *et al.* (2021) Cardiac macrophages prevent sudden death during heart stress. [Nat Commun. 12 \(1\): 1910.](#)
117. Hasuzawa, N. *et al.* (2021) Clodronate, an inhibitor of the vesicular nucleotide transporter, ameliorates steatohepatitis and acute liver injury. [Sci Rep. 11 \(1\): 5192.](#)
118. Makiishi, S. *et al.* (2021) Carnitine/organic cation transporter 1 precipitates the progression of interstitial fibrosis through oxidative stress in diabetic nephropathy in mice. [Sci Rep. 11 \(1\): 9093.](#)
119. Cheng, P. *et al.* (2021) Aldose reductase deficiency inhibits LPS-induced M1 response in macrophages by activating autophagy. [Cell Biosci. 11 \(1\): 61.](#)
120. Dalla Pietá, A. *et al.* (2021) Hyaluronan is a natural and effective immunological adjuvant for protein-based vaccines. [Cell Mol Immunol. 18 \(5\): 1197-210.](#)
121. Kuzumoto, T. *et al.* (2021) Protective role of resolvin D1, a pro-resolving lipid mediator, in nonsteroidal anti-inflammatory drug-induced small intestinal damage. [PLoS One. 16 \(5\): e0250862.](#)
122. Menz, J. *et al.* (2021) Increased mortality and altered local immune response in secondary peritonitis after previous visceral operations in mice. [Sci Rep. 11 \(1\): 16175.](#)
123. Xu, H. *et al.* (2021) Adipocyte inducible 6-phosphofructo-2-kinase suppresses adipose tissue inflammation and promotes macrophage anti-inflammatory activation. [J Nutr Biochem. 95: 108764.](#)
124. Fritz, N.M. *et al.* (2021) Cytomegalovirus chemokine receptor M33 knockout reduces chronic allograft rejection in a murine aortic transplant model. [Transpl Immunol. 64: 101359.](#)
125. Kim, J.I. *et al.* (2021) *IDH2* gene deficiency accelerates unilateral ureteral obstruction-induced kidney inflammation through oxidative stress and activation of macrophages. [Korean J Physiol Pharmacol. 25 \(2\): 139-46.](#)
126. Otsuka, H. *et al.* (2021) Histidine decarboxylase deficiency inhibits NBP-induced extramedullary hematopoiesis by modifying bone marrow and spleen microenvironments. [Int J Hematol. 113 \(3\): 348-61.](#)
127. Wu, W. *et al.* (2021) Latent TGF- β 1 protects against diabetic kidney disease via Arkadia/Smad7 signaling. [Int J Biol Sci. 17 \(13\): 3583-94.](#)
128. de Groot, A.E. *et al.* (2021) Characterization of tumor-associated macrophages in prostate cancer transgenic mouse models. [Prostate. 81 \(10\): 629-47.](#)
129. Stewart, A.N. *et al.* (2021) Acute inflammatory profiles differ with sex and age after spinal cord injury. [J Neuroinflammation. 18 \(1\): 113.](#)
130. Iwama, H. *et al.* (2021) Cathepsin B and D deficiency in the mouse pancreas induces impaired autophagy and chronic pancreatitis. [Sci Rep. 11 \(1\): 6596.](#)
131. Umbarawan, Y. *et al.* (2021) FABP5 Is a Sensitive Marker for Lipid-Rich Macrophages in the Luminal Side of Atherosclerotic Lesions. [Int Heart J. 62 \(3\): 666-676.](#)
132. Eubler, K. *et al.* (2021) Exploring the Ion Channel TRPV2 and Testicular Macrophages in Mouse Testis [Int J Mol Sci. 22 \(9\): 4727.](#)
133. Vito, A. *et al.* (2021) Combined Radionuclide Therapy and Immunotherapy for Treatment of Triple Negative Breast Cancer [Int J Mol Sci. 22 \(9\): 4843.](#)
134. An, C. *et al.* (2022) Myeloid PTEN deficiency aggravates renal inflammation and fibrosis in angiotensin II-induced hypertension. [J Cell Physiol. 237 \(1\): 983-91.](#)
135. Liu, Y.T. *et al.* (2021) Seed- and Soil-Dependent Differences in Murine Breast Tumor Microenvironments Dictate Anti-PD-L1 IgG Delivery and Therapeutic Efficacy. [Pharmaceutics. 13\(4\): 530.](#)

136. Cyge, B. *et al.* (2021) Loss of the ciliary protein Chibby1 in mice leads to exocrine pancreatic degeneration and pancreatitis. [Sci Rep. 11 \(1\): 17220.](#)
137. Schünke, H. *et al.* (2021) OTULIN inhibits RIPK1-mediated keratinocyte necroptosis to prevent skin inflammation in mice. [Nat Commun. 12 \(1\): 5912.](#)
138. Rabe, D.C. *et al.* (2021) Tumor Extracellular Vesicles Regulate Macrophage-Driven Metastasis through CCL5. [Cancers \(Basel\). 13 \(14\): 3459.](#)
139. Nanou, A. *et al.* (2021) Endothelial Tpl2 regulates vascular barrier function via JNK-mediated degradation of claudin-5 promoting neuroinflammation or tumor metastasis. [Cell Rep. 35 \(8\): 109168.](#)
140. Matsuura, R. *et al.* (2021) Preexisting heart failure with reduced ejection fraction attenuates renal fibrosis after ischemia reperfusion via sympathetic activation. [Sci Rep. 11 \(1\): 15091.](#)
141. Nosaka, M. *et al.* (2021) Intrathrombotic appearances of AQP-1 and AQP-3 in relation to thrombus age in murine deep vein thrombosis model. [Int J Legal Med. 135 \(2\): 547-53.](#)
142. Farahat, M. *et al.* (2021) Effect of Biomechanical Environment on Degeneration of Meckel's Cartilage. [J Dent Res. 100 \(2\): 171-178.](#)
143. Fantin, A. *et al.* (2021) KIT Is Required for Fetal Liver Hematopoiesis. [Front Cell Dev Biol. 9: 648630.](#)
144. Verdoodt, D. *et al.* (2021) Cochlin Deficiency Protects Aged Mice from Noise-Induced Hearing Loss. [Int J Mol Sci. 22 \(21\): 11549.](#)
145. Chang, M.Y. *et al.* (2022) Metformin induces lactate accumulation and accelerates renal cyst progression in Pkd1-deficient mice. [Hum Mol Genet. 31 \(10\): 1560-73.](#)
146. Wu, W. *et al.* (2021) Buyang Huanwu Decoction protects against STZ-induced diabetic nephropathy by inhibiting TGF- β /Smad3 signaling-mediated renal fibrosis and inflammation. [Chin Med. 16 \(1\): 118.](#)
147. Teuwen, L.A. *et al.* (2021) Tumor vessel co-option probed by single-cell analysis. [Cell Rep. 35 \(11\): 109253.](#)
148. Das, J.R. *et al.* (2021) Circulating fibroblast growth factor-2 precipitates HIV nephropathy in mice. [Dis Model Mech. 14 \(7\): dmm048980.](#)
149. Wada, I. *et al.* (2021) Retinal VEGF-A Overexpression Is Not Sufficient to Induce Lymphangiogenesis Regardless of VEGF-C Upregulation and Lyve1+ Macrophage Infiltration. [Invest Ophthalmol Vis Sci. 62 \(13\): 17.](#)
150. Schmidtke, L. *et al.* (2021) Knockout of the KH-Type Splicing Regulatory Protein Drives Glomerulonephritis in MRL-Fas^{lpr} Mice. [Cells. 10 \(11\): 3167.](#)
151. Lanigan, L.G. *et al.* (2021) *In Vivo*. Tumorigenesis, Osteolytic Sarcomas, and Tumorigenic Cell Lines from Transgenic Mice Expressing the Human T-Lymphotropic Virus Type 1 (HTLV-1) Tax Viral Oncogene. [Am J Pathol. 191 \(2\): 335-52.](#)
152. Fagoonee, S. *et al.* (2022) Circulating Extracellular Vesicles Contain Liver-Derived RNA Species as Indicators of Severe Cholestasis-Induced Early Liver Fibrosis in Mice. [Antioxid Redox Signal. 36 \(7-9\): 480-504.](#)
153. Kido, Y. *et al.* (2021) Genetic deletion of Vegfr2 in endothelial cells leads to immediate disruption of tumor vessels and aggravation of hypoxia. [Am J Pathol. 2021: S0002-9440\(21\)00511-3.](#)
154. Aschman, T. *et al.* (2021) Interferon Lambda Regulates Cellular and Humoral Immunity in Pristane-Induced Lupus. [Int J Mol Sci. 22\(21\):11747.](#)
155. Jala, V.R. *et al.* (2021) Absence of CCR2 reduces spontaneous intestinal

- tumorigenesis in the Apc(Min) (+) mouse model. [Int J Cancer. Jan 26 \[Epub ahead of print\].](#)
156. Fukase, M. *et al.* (2022) Intravenous injection of human multilineage-differentiating stress-enduring cells alleviates mouse severe acute pancreatitis without immunosuppressants. [Surg Today. 52 \(4\): 603-615.](#)
157. Chen, C. *et al.* (2021) Activation of the Unfolded Protein Response (UPR) Is Associated with Cholangiocellular Injury, Fibrosis and Carcinogenesis in an Experimental Model of Fibropolycystic Liver Disease [Cancers. 14 \(1\): 78.](#)
158. Boki, H. *et al.* (2021) Lymphatic dysfunction exacerbates cutaneous tumorigenesis and psoriasis-like skin inflammation through accumulation of inflammatory cytokines. [J Invest Dermatol. Nov 12; S0022-202X\(21\)02472-6.](#)
159. Ohmura, Y. *et al.* (2021) Natural Killer T Cells Are Involved in Atherosclerotic Plaque Instability in Apolipoprotein-E Knockout Mice. [Int J Mol Sci. 22\(22\):12451.](#)
160. Hudkins, K.L. *et al.* (2021) Regression of diabetic nephropathy by treatment with empagliflozin in BTBR ob/ob mice. [Nephrol Dial Transplant. 37 \(5\): 847-59.](#)
161. Suffee, N. *et al.* (2021) Impacts of a high fat diet on the metabolic profile and the phenotype of atrial myocardium in mice. [Cardiovasc Res. 118 \(15\): 3126-39.](#)
162. Yang, S.R. *et al.* (2021) Cf-02, a novel benzamide-linked small molecule, blunts NF- κ B activation and NLRP3 inflammasome assembly and improves acute onset of accelerated and severe lupus nephritis in mice. [FASEB J. 35 \(8\): e21785.](#)
163. Allen, A.C. *et al.* (2021) Parallel *in vivo*. experimental evolution reveals that increased stress resistance was key for the emergence of persistent tuberculosis bacilli. [Nat Microbiol. 6 \(8\): 1082-1093.](#)
164. Barboza, P.A. *et al.* (2021) Acute cylindrospermopsin exposure: Pulmonary and liver harm and mitigation by dexamethasone. [Toxicol. 191: 18-24.](#)
165. Sumiyoshi, H. *et al.* (2021) External administration of moon jellyfish collagen solution accelerates physiological wound healing and improves delayed wound closure in diabetic model mice. [Regen Ther. 18: 223-30.](#)
166. Yoon, Y.S. *et al.* (2021) Activation of the adipocyte CREB/CRTC pathway in obesity. [Commun Biol. 4 \(1\): 1214.](#)
167. Epperly, M.W. *et al.* (2021) Radiation-Induced Senescence in p16+/LUC Mouse Lung Compared to Bone Marrow Multilineage Hematopoietic Progenitor Cells. [Radiat Res. 196 \(3\): 235-49.](#)
168. Yang, F. *et al.* (2021) Regulatory role and mechanisms of myeloid TLR4 in anti-GBM glomerulonephritis. [Cell Mol Life Sci. 78 \(19-20\): 6721-34.](#)
169. Suffee, N. *et al.* (2022) Impacts of a high-fat diet on the metabolic profile and the phenotype of atrial myocardium in mice. [Cardiovasc Res. 118 \(15\): 3126-39.](#)
170. McGonigal, R. *et al.* (2021) Neuronally expressed a-series gangliosides are sufficient to prevent the lethal age-dependent phenotype in GM3-only expressing mice. [J Neurochem. 158 \(2\): 217-32.](#)
171. Baraibar-Churio, A. *et al.* (2021) Deficiency of MMP-10 Aggravates the Diseased Phenotype of Aged Dystrophic Mice [Life. 11 \(12\): 1398.](#)
172. Bormann, T. *et al.* (2021) Role of the COX2-PGE₂ axis in *S. pneumoniae*-induced exacerbation of experimental fibrosis. [Am J Physiol Lung Cell Mol Physiol. 320 \(3\): L377-L392.](#)
173. Wu, L. *et al.* (2021) The Attenuation of Diabetic Nephropathy by Annexin A1 via Regulation of Lipid Metabolism Through the AMPK/PPAR α /CPT1b Pathway. [Diabetes. 70](#)

[\(10\): 2192-203.](#)

174. Liu, Y. *et al.* (2022) Nrf2 deficiency deteriorates diabetic kidney disease in Akita model mice. [Redox Biol. 58: 102525.](#)
175. Klein, D. *et al.* (2022) Early targeting of endoneurial macrophages alleviates the neuropathy and affects abnormal Schwann cell differentiation in a mouse model of Charcot-Marie-Tooth 1A. [Glia. 70 \(6\): 1100-16.](#)
176. Domoto, R. *et al.* (2022) Role of neuron-derived ATP in paclitaxel-induced HMGB1 release from macrophages and peripheral neuropathy. [J Pharmacol Sci. 148 \(1\): 156-61.](#)
177. Celus, W. *et al.* (2022) Plexin-A4 Mediates Cytotoxic T-cell Trafficking and Exclusion in Cancer. [Cancer Immunol Res. 10 \(1\): 126-41.](#)
178. Howard, F.H.N. *et al.* (2022) Nanobugs as Drugs: Bacterial Derived Nanomagnets Enhance Tumor Targeting and Oncolytic Activity of HSV-1 Virus. [Small. : e2104763.](#)
179. Alegre, F. *et al.* (2022) Macrophages Modulate Hepatic Injury Involving NLRP3 Inflammasome: The Example of Efavirenz. [Biomedicines. 10 \(1\): 109.](#)
180. Beuker, C. *et al.* (2022) Stroke induces disease-specific myeloid cells in the brain parenchyma and pia. [Nat Commun. 13 \(1\): 945.](#)
181. Djudjaj, S. *et al.* (2022) Activation of Notch3 in Renal Tubular Cells Leads to Progressive Cystic Kidney Disease. [Int J Mol Sci. 23\(2\):884.](#)
182. Bosso, G. *et al.* (2022) Early differential responses elicited by BRAF^{V600E} in adult mouse models. [Cell Death Dis. 13 \(2\): 142.](#)
183. Leary, N. *et al.* (2022) Melanoma-derived extracellular vesicles mediate lymphatic remodelling and impair tumour immunity in draining lymph nodes. [J Extracell Vesicles. 11 \(2\): e12197.](#)
184. Xie, H. *et al.* (2022) An immune-sympathetic neuron communication axis guides adipose tissue browning in cancer-associated cachexia. [Proc Natl Acad Sci U S A. 119 \(9\): e2112840119.](#)
185. Eckes, T. *et al.* (2022) Sphingosine 1-Phosphate Receptor 5 (S1P 5) Knockout Ameliorates Adenine-Induced Nephropathy [Int J Mol Sci. 23 \(7\): 3952.](#)
186. Schützhold, V. *et al.* (2022) Knockout of Factor-Inhibiting HIF (Hif1an) in Colon Epithelium Attenuates Chronic Colitis but Does Not Reduce Colorectal Cancer in Mice. [J Immunol. 208 \(5\): 1280-91.](#)
187. Sarkar, T. *et al.* (2022) Perinatal exposure to synergistic multiple stressors leads to cellular and behavioral deficits mimicking Schizophrenia-like pathology. [Biol Open. 11 \(3\): bio058870.](#)
188. Zheng, Z. *et al.* (2022) *In Vivo*. Inhibition of TRPC6 by SH045 Attenuates Renal Fibrosis in a New Zealand Obese (NZO) Mouse Model of Metabolic Syndrome. [Int J Mol Sci. 23 \(12\): 6870.](#)
189. Wu, T-C. *et al.* (2022) Tolvaptan reduces angiotensin II-induced experimental abdominal aortic aneurysm and dissection. [Vascul Pharmacol. : 106973.](#)
190. Okada, K. *et al.* (2022) Role of Macrophages and Plasminogen Activator Inhibitor-1 in Delayed Bone Repair Induced by Glucocorticoids in Mice [Int J Mol Sci 23 \(1\): 478](#)
191. Gillard, J. *et al.* (2022) Enterohepatic Takeda G-Protein Coupled Receptor 5 Agonism in Metabolic Dysfunction-Associated Fatty Liver Disease and Related Glucose Dysmetabolism. [Nutrients. 14 \(13\): 2707.](#)
192. Mendes de Oliveira, E. *et al.* (2022) Acute Inflammation Is a Predisposing Factor for Weight Gain and Insulin Resistance [Pharmaceutics. 14 \(3\): 623.](#)
193. Mauer, J. *et al.* (2022) Nintedanib reduces alloimmune-induced chronic airway

- changes in murine tracheal allografts. [Transpl Immunol. 73: 101608.](#)
194. Zhu, B. *et al.* (2022) Indole Supplementation Ameliorates MCD-induced NASH in mice. [J Nutr Biochem. : 109041.](#)
195. Fahlquist-Hagert, C. *et al.* (2022) Variants of beta-glucan polysaccharides downregulate autoimmune inflammation. [Commun Biol. 5 \(1\): 449.](#)
196. Hussain, K. *et al.* (2022) HIF activation enhances FcγRIIb expression on mononuclear phagocytes impeding tumor targeting antibody immunotherapy. [J Exp Clin Cancer Res. 41 \(1\): 131.](#)
197. Vlachou, F. *et al.* (2022) Galectin-3 interferes with tissue repair and promotes cardiac dysfunction and comorbidities in a genetic heart failure model. [Cell Mol Life Sci. 79 \(5\): 250.](#)
198. Zhang, J. *et al.* (2022) Mesenchymal stem cell-derived extracellular vesicles protect retina in a mouse model of retinitis pigmentosa by anti-inflammation through miR-146a-Nr4a3 axis. [Stem Cell Res Ther. 13 \(1\): 394.](#)
199. Spitzel, M. *et al.* (2022) Dysregulation of Immune Response Mediators and Pain-Related Ion Channels Is Associated with Pain-like Behavior in the GLA KO Mouse Model of Fabry Disease. [Cells. 11 \(11\): 1730.](#)
200. Chang, M.Y. *et al.* (2022) Effects of Suramin on Polycystic Kidney Disease in a Mouse Model of Polycystin-1 Deficiency. [Int J Mol Sci. 23 \(15\) 8499.](#)
201. Spix, B. *et al.* (2022) Whole-body analysis of TRPML3 (MCOLN3) expression using a GFP-reporter mouse model reveals widespread expression in secretory cells and endocrine glands. [PLoS One. 17 \(12\): e0278848.](#)
202. Sitia, G. *et al.* (2022) Food-Grade Titanium Dioxide Induces Toxicity in the Nematode *Caenorhabditis elegans* and Acute Hepatic and Pulmonary Responses in Mice. [Nanomaterials \(Basel\). 12 \(10\): 1669.](#)
203. Sakashita, H. *et al.* (2022) Spatial and chronological localization of septoclasts in the mouse Meckel's cartilage. [Histochem Cell Biol. 157 \(5\): 569-80.](#)
204. Schepers, M. *et al.* (2022) Selective PDE4 subtype inhibition provides new opportunities to intervene in neuroinflammatory versus myelin damaging hallmarks of multiple sclerosis. [Brain Behav Immun. 109: 1-22.](#)
205. Al Moussawi, K. *et al.* (2022) Mutant Ras and inflammation-driven skin tumorigenesis is suppressed via a JNK-iASPP-AP1 axis. [Cell Rep. 41 \(3\): 111503.](#)
206. Chaudhary, P. *et al.* (2022) Optic Nerve Head Myelin-Related Protein, GFAP, and Iba1 Alterations in Non-Human Primates With Early to Moderate Experimental Glaucoma. [Invest Ophthalmol Vis Sci. 63 \(11\): 9.](#)
207. Xie, Q. *et al.* (2022) Matrix protein Tenascin-C promotes kidney fibrosis via STAT3 activation in response to tubular injury. [Cell Death Dis. 13 \(12\): 1044.](#)
208. Piñeiro-Hermida, S. *et al.* (2022) Consequences of telomere dysfunction in fibroblasts, club and basal cells for lung fibrosis development. [Nat Commun. 13 \(1\): 5656.](#)
209. Camargo, F.N. *et al.* (2022) Western Diet-Fed ApoE Knockout Male Mice as an Experimental Model of Non-Alcoholic Steatohepatitis. [Curr Issues Mol Biol. 44 \(10\): 4692-703.](#)
210. Fernández-Ginés, R. *et al.* (2022) An inhibitor of interaction between the transcription factor NRF2 and the E3 ubiquitin ligase adapter β-TrCP delivers anti-inflammatory responses in mouse liver. [Redox Biol. 55: 102396.](#)
211. Kümper, M. *et al.* (2022) Role of MMP3 and fibroblast-MMP14 in skin homeostasis and repair. [Eur J Cell Biol. 101 \(4\): 151276.](#)

212. van Os, E.A. *et al.* (2022) Modelling fatty liver disease with mouse liver-derived multicellular spheroids. [Biomaterials. 290: 121817.](#)
213. Gawish, R. *et al.* (2022) A neutrophil-B-cell axis impacts tissue damage control in a mouse model of intraabdominal bacterial infection via Cxcr4. [Elife. 11:e78291.](#)
214. Yoon, S.G. *et al.* (2023) Role of NADPH Oxidases in Renal Aging. [Gerontology. 69 \(7\): 852-65.](#)
215. Wu, Q. *et al.* (2022) Influenza A virus modulates ACE2 expression and SARS-CoV-2 infectivity in human cardiomyocytes. [iScience. 25 \(12\): 105701.](#)
216. Ryu, K.J. *et al.* (2023) Effects of time-restricted feeding on letrozole-induced mouse model of polycystic ovary syndrome. [Sci Rep. 13 \(1\): 1943.](#)
217. Liebold, I. *et al.* (2023) TREM2 Regulates the Removal of Apoptotic Cells and Inflammatory Processes during the Progression of NAFLD [Cells. 12 \(3\): 341.](#)
218. Yamaguchi, M. *et al.* (2022) Identifying Hyperreflective Foci in Diabetic Retinopathy via VEGF-Induced Local Self-Renewal of CX3CR1+ Vitreous Resident Macrophages. [Diabetes. 71 \(12\): 2685-2701.](#)
219. Lanthier, N. *et al.* (2022) Liver Fetuin-A at Initiation of Insulin Resistance. [Metabolites. 12 \(11\): 1023.](#)
220. Ahamed, W. *et al.* (2022) HTRA1 Regulates Subclinical Inflammation and Activates Proangiogenic Response in the Retina and Choroid. [Int J Mol Sci. 23\(18\): 10206.](#)
221. Song, J. *et al.* (2023) Age-associated adipose tissue inflammation promotes monocyte chemotaxis and enhances atherosclerosis. [Aging Cell. 22 \(2\): e13783.](#)
222. Keul, P. *et al.* (2022) Sphingosine-1-Phosphate (S1P) Lyase Inhibition Aggravates Atherosclerosis and Induces Plaque Rupture in ApoE(-/-) Mice. [Int J Mol Sci. 23 \(17\): 9606.](#)
223. Zheng, W. *et al.* (2024) *Mycobacterium tuberculosis* resides in lysosome-poor monocyte-derived lung cells during chronic infection. [PLoS Pathog. 20 \(5\): e1012205.](#)
224. Riera-Domingo, C. *et al.* (2023) Breast tumors interfere with endothelial TRAIL at the premetastatic niche to promote cancer cell seeding. [Sci Adv. 9 \(12\): eadd5028.](#)
225. Bani-Hani, M. *et al.* (2023) Interactions of Carboxylated Nanodiamonds With Mouse Macrophages Cell Line and Primary Cells [Int J Orthopaed Res. 6 \(1\): 30-43.](#)
226. Riera-Domingo, C. *et al.* (2023) Breast tumors interfere with endothelial TRAIL at the premetastatic niche to promote cancer cell seeding. [Sci Adv. 9 \(12\): eadd5028.](#)
227. Violatto, M.B. *et al.* (2023) Variations in Biodistribution and Acute Response of Differently Shaped Titania Nanoparticles in Healthy Rodents. [Nanomaterials \(Basel\). 13 \(7\): 1174](#)
228. Azulay, M. *et al.* (2023) Tumor-targeted superantigens produce curative tumor immunity with induction of memory and demonstrated antigen spreading. [J Transl Med. 21 \(1\): 222.](#)
229. Liou, G.Y. *et al.* (2023) Inflammatory and alternatively activated macrophages independently induce metaplasia but cooperatively drive pancreatic precancerous lesion growth. [iScience. 26 \(6\): 106820.](#)
230. Bobrovskyy, M. *et al.* (2023) The Type 7b Secretion System of *S. aureus* and Its Role in Colonization and Systemic Infection. [Infect Immun. 91 \(5\): e0001523.](#)
231. Sakashita, H. *et al.* (2022) Spatial and chronological localization of septoclasts in the mouse Meckel's cartilage. [Histochem Cell Biol. 157 \(5\): 569-80.](#)
232. Desaki, Y. *et al.* (2023) Fc α Receptor Type I and Its Association with Atherosclerosis Development [Juntendo Medical Journal. 69 \(3\): 231-9.](#)

233. Weiß, E.M. *et al.* (2023) Macrophages influence Schwann cell myelin autophagy after nerve injury and in a model of Charcot-Marie-Tooth disease. [J Peripher Nerv Syst. 28 \(3\): 341-50.](#)
234. Otsuka, H. *et al.* (2023) Histamine deficiency inhibits lymphocyte infiltration in the submandibular gland of aged mice via increased anti-aging factor Klotho. [J Oral Biosci. 65 \(3\): 243-52.](#)
235. Fisch, J. *et al.* (2024) Effects of different maternal diets on adipose tissue inflammation and liver tissue oxidative stress in dams and their female offspring. [Mol Cell Biochem. 479 \(5\): 1257-66.](#)
236. Upadhyay, K.K. *et al.* (2023) Hepatocyte-specific loss of LAP2 α protects against diet-induced hepatic steatosis, steatohepatitis, and fibrosis in male mice. [Am J Physiol Gastrointest Liver Physiol. 325 \(2\): G184-G195.](#)
237. Araujo, L.C.C. *et al.* (2023) Estradiol Protects Female ApoE KO Mice against Western-Diet-Induced Non-Alcoholic Steatohepatitis. [Int J Mol Sci. 24 \(12\): 9845.](#)
238. Chien, H.T. *et al.* (2023) Multi-omics profiling of chemotactic characteristics of brain microglia and astrocytoma. [Life Sci. 330: 121855.](#)
239. Healy, S. *et al.* (2023) Spatial analysis of nanoparticle distribution in human breast xenografts reveals nanoparticles targeted to cancer cells localized with tumor-associated stromal cells. [Nanotheranostics. 7 \(4\): 393-411.](#)
240. Bieber, K. *et al.* (2023) Forward genetics and functional analysis highlight Itga11 as a modulator of murine psoriasiform dermatitis. [J Pathol. 261 \(2\): 184-197.](#)
241. Zhou, E. *et al.* (2023) Inhibition of DHCR24 activates LXR α to ameliorate hepatic steatosis and inflammation. [EMBO Mol Med. 15 \(8\): e16845.](#)
242. Kadoya, H. *et al.* (2023) Activation of the inflammasome drives peritoneal deterioration in a mouse model of peritoneal fibrosis. [FASEB J. 37 \(9\): e23129.](#)
243. Bao, Y. *et al.* (2023) Sulfated glucuronomannan hexamer inhibits lipid accumulation and ameliorates atherosclerosis in apolipoprotein E-deficient mice [J Funct Foods. 108: 105742.](#)
244. Horikami, D. *et al.* (2023) Roles of lipocalin-type and hematopoietic prostaglandin D synthases in mouse retinal angiogenesis. [J Lipid Res. 64 \(10\):100439.](#)
245. Doha, Z.O. *et al.* (2023) MYC Dereglulation and PTEN Loss Model Tumor and Stromal Heterogeneity of Aggressive Triple-Negative Breast Cancer. [Nat Commun. 14 \(1\): 5665.](#)
246. Itoh, M. *et al.* (2023) Lysosomal cholesterol overload in macrophages promotes liver fibrosis in a mouse model of NASH. [J Exp Med. 220 \(11\): e20220681.](#)
247. Roger, E. *et al.* (2023) Connexin-43 hemichannels orchestrate NOD-like receptor protein-3 (NLRP3) inflammasome activation and sterile inflammation in tubular injury. [Cell Commun Signal. 21 \(1\): 263.](#)
248. Saenz-Pipaon, G. *et al.* (2023) Role of LCN2 in a murine model of hindlimb ischemia and in peripheral artery disease patients, and its potential regulation by miR-138-5P. [Atherosclerosis. 385: 117343.](#)
249. Kanhai, A.A. *et al.* (2023) Short salsalate administration affects cell proliferation, metabolism, and inflammation in polycystic kidney disease [iScience. 26 \(11\): 108278.](#)
250. Zhou, Q. *et al.* (2023) Thrombospondin1 antagonist peptide treatment attenuates obesity-associated chronic inflammation and metabolic disorders in a diet-induced obese mouse model. [Sci Rep. 13 \(1\): 20193.](#)
251. McFleder, R.L. *et al.* (2023) Brain-to-gut trafficking of alpha-synuclein by CD11c(+)

- cells in a mouse model of Parkinson's disease. [Nat Commun. 14 \(1\): 7529.](#)
252. Gogulamudi, V.R. *et al.* (2023) Heterozygosity for ADP-ribosylation factor 6 suppresses the burden and severity of atherosclerosis. [PLoS One. 18 \(5\): e0285253.](#)
253. Sanchez-Niño, M.D. *et al.* (2023) Interaction of Fabry Disease and Diabetes Mellitus: Suboptimal Recruitment of Kidney Protective Factors. [Int J Mol Sci. 24 \(21\): 15853.](#)
254. Kadoya, H. *et al.* (2023) Activation of the inflammasome drives peritoneal deterioration in a mouse model of peritoneal fibrosis. [FASEB J. 37 \(9\): e23129.](#)
255. Kim, M.G. *et al.* (2023) Altered gut microbiome plays an important role in AKI to CKD transition in aged mice. [Front Med \(Lausanne\). 10: 1238960.](#)
256. Marcadet, L. *et al.* (2023) RANKL Inhibition Reduces Cardiac Hypertrophy in mdx Mice and Possibly in Children with Duchenne Muscular Dystrophy. [Cells. 12 \(11\): 1538.](#)
257. Sun, Y. *et al.* (2023) Engineered oncolytic bacteria HCS1 exerts high immune stimulation and safety profiles for cancer therapy. [Theranostics. 13 \(15\): 5546-60.](#)
258. Yiu, W.H. *et al.* (2023) The long noncoding RNA Meg3 mediates TLR4-induced inflammation in experimental obstructive nephropathy. [Clin Sci \(Lond\). 137 \(5\): 317-331.](#)
259. Morita, A. *et al.* (2023) Frequent loss of metastatic ability in subclones of Apc, Kras, Tgfb2, and Trp53 mutant intestinal tumor organoids. [Cancer Sci. 114 \(4\): 1437-50.](#)
260. Ballesteros-Martínez, C. *et al.* (2022) Microsomal prostaglandin E synthase-1 is involved in the metabolic and cardiovascular alterations associated with obesity. [Br J Pharmacol. 179 \(11\): 2733-53.](#)
261. Tóvári, J. *et al.* (2023) Evolving Acquired Vemurafenib Resistance in a BRAF V600E Mutant Melanoma PDTX Model to Reveal New Potential Targets. [Cells. 12 \(14\): 1919.](#)
262. Moschandrea, C. *et al.* (2024) Mitochondrial dysfunction abrogates dietary lipid processing in enterocytes. [Nature. 625 \(7994\): 385-92.](#)
263. Tarallo, V. *et al.* (2023) PIGF and VEGF-A/PIGF heterodimer are crucial in the recruitment and activation of immune cells during choroidal neovascularization. [Res Sq. 22 Dec \[Epub ahead of print\].](#)
264. Turman, J.M. *et al.* (2021) Accelerated Clearance and Degradation of Cell-Free HIV by Neutralizing Antibodies Occurs via FcγRIIb on Liver Sinusoidal Endothelial Cells by Endocytosis. [J Immunol. 206 \(6\): 1284-96.](#)
265. Kitagawa, K. *et al.* (2023) Subacute exposure to bisphenol F diglycidyl-ether induces chronic dermatitis characterized by psoriasis-like skin inflammation in mice. [Genes Cells. 28 \(1\): 42-52.](#)
266. Chiozzi, P. *et al.* (2019) Amyloid β-dependent mitochondrial toxicity in mouse microglia requires P2X7 receptor expression and is prevented by nimodipine. [Sci Rep. 9 \(1\): 6475.](#)
267. Waasdorp, M. *et al.* (2019) Protease-activated receptor-1 contributes to renal injury and interstitial fibrosis during chronic obstructive nephropathy. [J Cell Mol Med. 23 \(2\): 1268-1279.](#)
268. Hartley, G.P. *et al.* (2018) Programmed Cell Death Ligand 1 (PD-L1) Signaling Regulates Macrophage Proliferation and Activation. [Cancer Immunol Res. 6 \(10\): 1260-73.](#)
269. Keller, S. *et al.* (2020) 9-Methyl-β-carboline inhibits monoamine oxidase activity and stimulates the expression of neurotrophic factors by astrocytes. [J Neural Transm \(Vienna\). 127 \(7\): 999-1012.](#)
270. You, Y.K. *et al.* (2019) Petchiether A attenuates obstructive nephropathy by suppressing TGF-β/Smad3 and NF-κB signalling. [J Cell Mol Med. 23 \(8\): 5576-87.](#)

271. Doblado, L. *et al.* (2024) Intestinal Effects of Filtered Alkalinized Water in Lean and Obese Zucker Rats [Microorganisms. 12 \(2\): 316.](#)
272. Li, J. *et al.* (2024) Mitophagy protects against silver nanoparticle-induced hepatotoxicity by inhibiting mitochondrial ROS and the NLRP3 inflammasome. [Ecotoxicol Environ Saf. 273: 116137.](#)
273. Mirhaidari, G.J.M. *et al.* (2023) Implanted Tissue-Engineered Vascular Graft Cell Isolation with Single-Cell RNA Sequencing Analysis. [Tissue Eng Part C Methods. 29 \(2\): 72-84.](#)
274. Mével, E. *et al.* (2022) Systemic inhibition or global deletion of CaMKK2 protects against post-traumatic osteoarthritis. [Osteoarthritis Cartilage. 30 \(1\): 124-36.](#)
275. Hilwi, M. *et al.* (2024) Nuclear localization of heparanase 2 (Hpa2) attenuates breast carcinoma growth and metastasis. [Cell Death Dis. 15 \(3\): 232.](#)
276. Sasaki, I. *et al.* (2024) A stress sensor, IRE1 α , is required for bacterial-exotoxin-induced interleukin-1 β production in tissue-resident macrophages. [Cell Rep. 43 \(4\): 113981.](#)
277. Park, A.M. *et al.* (2020) Galectin-3 as a Therapeutic Target for NSAID-Induced Intestinal Ulcers. [Front Immunol. 11: 550366.](#)
278. Martin, K. *et al.* (2020) Requirement of Mucosa-Associated Lymphoid Tissue Lymphoma Translocation Protein 1 Protease Activity for Fc γ Receptor-Induced Arthritis, but Not Fc γ Receptor-Mediated Platelet Elimination, in Mice. [Arthritis Rheumatol. 72 \(6\): 919-930.](#)
279. Rodrigues-Diez, R. *et al.* (2024) Resolvin D2 prevents vascular remodeling, hypercontractility and endothelial dysfunction in obese hypertensive mice through modulation of vascular and proinflammatory factors. [Biomed Pharmacother. 174: 116564.](#)
280. Bosso, G. *et al.* (2024) Differential contribution for ERK1 and ERK2 kinases in BRAF(V600E)-triggered phenotypes in adult mouse models. [Cell Death Differ. 31 \(6\): 804-19.](#)
281. Jian, C. *et al.* (2020) Low-Dose Sorafenib Acts as a Mitochondrial Uncoupler and Ameliorates Nonalcoholic Steatohepatitis. [Cell Metab. 31 \(5\): 892-908.e11.](#)
282. Saravanabavan, S. & Rangan, G.K. (2022) Kidney Cyst Lining Epithelial Cells Are Resistant to Low-Dose Cisplatin-Induced DNA Damage in a Preclinical Model of Autosomal Dominant Polycystic Kidney Disease. [Int J Mol Sci. 23 \(20\): 12547.](#)
283. Rinta-Jaskari, M.M. *et al.* (2024) Collagen XVIII regulates extracellular matrix integrity in the developing nephrons and impacts nephron progenitor cell behavior. [Matrix Biol. 131: 30-45.](#)
284. Hayakawa, K. *et al.* (2023) Topical application of imatinib mesylate ameliorated psoriasis-like skin lesions in imiquimod-induced murine model via angiogenesis inhibition. [Exp Dermatol. 32 \(6\): 878-88.](#)
285. Dou, Y. *et al.* (2024) Inhibiting the cGAS-STING pathway in myeloid cells effectively improves myocardial healing related to TET2 deficiency-induced DNA damage response [Clinical and Translational Medicine. 22 Jun \[Epub ahead of print\].](#)
286. Zhao, Y. *et al.* (2024) Costunolide Inhibits Chronic Kidney Disease Development by Attenuating IKK β /NF- κ B Pathway [Drug Design, Development and Therapy. Volume 18: 2693-712.](#)
287. Perretta-Tejedor, N. *et al.* (2024) Cardiotrophin-1 therapy reduces disease severity in a murine model of glomerular disease. [Physiol Rep. 12 \(13\): e16129.](#)
288. Lopez, D. *et al.* (2014) Mapping hematopoiesis in a fully regenerative vertebrate: the

- axolotl. [Blood. 124 \(8\): 1232-41.](#)
289. Yun, M.H. *et al.* (2015) Recurrent turnover of senescent cells during regeneration of a complex structure. [Elife. 4May 05 \[Epub ahead of print\].](#)
290. Fujimura, R. *et al.* (2020) Autophagy protects kidney from phosphate-induced mitochondrial injury. [Biochem Biophys Res Commun. 524 \(3\): 636-42.](#)
291. Xu, M. *et al.* (2021) DJ-1 Deficiency in Hepatocytes Improves Liver Ischemia-Reperfusion Injury by Enhancing Mitophagy. [Cell Mol Gastroenterol Hepatol. 12 \(2\): 567-84.](#)
292. Mansurov, A. *et al.* (2022) Masking the immunotoxicity of interleukin-12 by fusing it with a domain of its receptor via a tumour-protease-cleavable linker. [Nat Biomed Eng. 6 \(7\): 819-829.](#)
293. Tóvári, J. *et al.* (2023) Evolving Acquired Vemurafenib Resistance in a BRAF V600E Mutant Melanoma PDTX Model to Reveal New Potential Targets. [Cells. 12 \(14\)Jul 24 \[Epub ahead of print\].](#)
294. Carter, T.H. *et al.* (2024) Delta-9-Tetrahydrocannabinol Blocks Bone Marrow-Derived Macrophage Differentiation through Elimination of Reactive Oxygen Species [Antioxidants. 13 \(8\): 887.](#)
295. Torrico, S. *et al.* (2024) PBMC therapy reduces cell death and tissue fibrosis after acute kidney injury by modulating the pattern of monocyte/macrophage survival in tissue. [Biomed Pharmacother. 178: 117186.](#)
296. Matthews, D.R. *et al.* (2021) Methionine- and Choline-Deficient Diet-Induced Nonalcoholic Steatohepatitis Is Associated with Increased Intestinal Inflammation. [Am J Pathol. 191 \(10\): 1743-53.](#)
297. Chan, A.S.L. *et al.* (2024) Titration of RAS alters senescent state and influences tumour initiation. [Nature. Aug 07 \[Epub ahead of print\].](#)
298. Jheng, H.F. *et al.* (2020) Anti-Inflammatory and Antioxidative Properties of Isoflavones Provide Renal Protective Effects Distinct from Those of Dietary Soy Proteins against Diabetic Nephropathy. [Mol Nutr Food Res. 64 \(10\): e2000015.](#)
299. Abed, A. *et al.* (2021) Endothelial-Specific Deletion of CD146 Protects Against Experimental Glomerulonephritis in Mice. [Hypertension. 77 \(4\): 1260-72.](#)
300. Hermert, D. *et al.* (2020) The nucleic acid binding protein YB-1-controlled expression of CXCL-1 modulates kidney damage in liver fibrosis. [Kidney Int. 97 \(4\): 741-52.](#)
301. Zaidan, M. *et al.* (2020) Signaling pathways predisposing to chronic kidney disease progression. [JCI Insight. 5 \(9\): e126183.](#)
302. Chen, C.C. *et al.* (2024) Transient receptor potential vanilloid 1 inhibition reduces brain damage by suppressing neuronal apoptosis after intracerebral hemorrhage. [Brain Pathol. 34 \(5\): e13244.](#)
303. Kamada, Y. *et al.* (2024) Core-fucose-specific *Pholiota squarrosa* lectin decreased hepatic inflammatory macrophage infiltration in steatohepatitis mice. [Glycoconj J. 41 \(4-5\): 267-78.](#)
304. Choi, M. *et al.* (2024) MicroRNA miR-199a-3p alleviates liver fibrosis by targeting CDK17 in activated hepatic stellate cells [Biochemical and Biophysical Research Communications. : 150727.](#)
305. Wu, J. *et al.* (2024) STING Promotes the Progression of ADPKD by Regulating Mitochondrial Function, Inflammation, Fibrosis, and Apoptosis [Biomolecules. 14 \(10\): 1215.](#)
306. Das, S. *et al.* (2024) Inhibition of hepatic oxalate overproduction ameliorates

- metabolic dysfunction-associated steatohepatitis. [Nat Metab. 6 \(10\): 1939-1962.](#)
307. Lepland, A. *et al.* (2024) Therapeutic Tumor Macrophage Reprogramming in Breast Cancer Through a Peptide-Drug Conjugate [bioRxiv 12 Aug \[Epub ahead of print\].](#)
308. Saraswati, S. *et al.* (2024) Renal fibroblasts are involved in fibrogenic changes in kidney fibrosis associated with dysfunctional telomeres. [Exp Mol Med. Oct 01 \[Epub ahead of print\].](#)
309. Cardoso, R. *et al.* (2024) Inosine Improves Functional Recovery and Cell Morphology Following Compressive Spinal Cord Injury in Mice [Neurotrauma Reports. 5 \(1\): 957-68.](#)
310. Theil, F. *et al.* (2024) Repeated CXCR4 Blockade by Plerixafor Attenuates Transplant Vasculopathy in Murine Aortic Allografts. [J Immunol. Oct 09 \[Epub ahead of print\].](#)
311. Covatti, C. *et al.* (2024) Photobiomodulation Therapy Effects at Different Stages of the Dystrophic Phenotype: A Histomorphometric Study. [J Manipulative Physiol Ther. Oct 23 \[Epub ahead of print\].](#)
312. Wang, Q. *et al.* (2024) RNF13 protects neurons against ischemia-reperfusion injury via stabilizing p62-mediated Nrf2/HO-1 signaling pathway [Cell Communication and Signaling. 22: 535.](#)
313. Gottmann, P. *et al.* (2024) Transcriptomic heterogeneity of non-beta islet cells is associated with type 2 diabetes development in mouse models [Diabetologia. 07 Nov \[Epub ahead of print\].](#)
314. Tuffs, C. *et al.* (2024) Genetic Loss of HIF-Prolyl-Hydroxylase (PHD) 1, but not pharmacological Inhibition, mitigates hepatic fibrosis. [Am J Pathol. S0002-9440\(24\)00411-5. \[Epub ahead of print\].](#)
315. Lu, J. *et al.* (2024) Clodronate liposome-mediated macrophage depletion ameliorates iron overload-induced dry eye disease. [Exp Eye Res. : 110204.](#)
316. Li, Y. *et al.* (2024) P46Shc inhibits mitochondrial ACAA2 thiolase, exacerbating mitochondrial injury and inflammation in aging livers [The American Journal of Pathology. 20 Dec \[Epub ahead of print\].](#)
317. Lin, C.E. *et al.* (2018) Proteomics analysis of altered proteins in kidney of mice with aristolochic acid nephropathy using the fluorogenic derivatization-liquid chromatography-tandem mass spectrometry method. [Biomed Chromatogr. 32 \(3\) Dec 05 \[Epub ahead of print\].](#)
318. Fleischer, M. *et al.* (2024) Direct neuronal protection by the protease-activated receptor PAR4 antagonist ML354 after experimental stroke in mice. [Br J Pharmacol. 181 \(18\): 3364-79.](#)
319. Daassi, D. (2025) MafB Transcription Factor Involved in IRD-Induced AKI (Acute Kidney Injury) Phenotype Attenuation and Inflammation Resolution [DNA. 5 \(1\): 5.](#)
320. Baeza, C. *et al.* (2024) NIK Is a Mediator of Inflammation and Intimal Hyperplasia in Endothelial Denudation-Induced Vascular Injury. [Int J Mol Sci. 25 \(21\): 11473.](#)
321. Bastea, L.I. *et al.* (2024) Coxsackievirus and adenovirus receptor expression facilitates enteroviral infections to drive the development of pancreatic cancer. [Nat Commun. 15 \(1\): 10547.](#)
322. Mulligan, M.P. *et al.* (2025) Single Dose of a Small Molecule Leads to Complete Regressions of Large Breast Tumors in Mice [ACS Cent Sci. 22 Jan \[Epub ahead of print\].](#)
323. Kontogianni, G.I. *et al.* (2025) A Mechanically Stimulated Co-culture in 3-Dimensional Composite Scaffolds Promotes Osteogenic and Anti-osteoclastogenic Activity and M2 Macrophage Polarization. [Biomater Res. 29: 0135.](#)
324. Horii, M. *et al.* (2025) Effects of oral γ -aminobutyric acid intake on muscle

regeneration in diabetic mice. [Am J Physiol Cell Physiol. Feb 05 \[Epub ahead of print\]](#).

Further Reading	1. Gordon, S. <i>et al.</i> (1992) Antigen markers of macrophage differentiation in murine tissues. Curr Top Microbiol Immunol. 181: 1-37.
Storage	Store at +4°C. DO NOT FREEZE. This product should be stored undiluted. This product is photosensitive and should be protected from light. Should this product contain a precipitate we recommend microcentrifugation before use.
Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #20487 available at: https://www.bio-rad-antibodies.com/SDS/MCA497APCT
Regulatory	For research purposes only

Related Products

Recommended Useful Reagents

[MOUSE SEROBLOCK FcR \(BUF041A\)](#)

[MOUSE SEROBLOCK FcR \(BUF041B\)](#)

Product inquiries: www.bio-rad-antibodies.com/technical-support

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets
'M438121:250326'

Printed on 28 May 2026