

## Datasheet: MCA771GT

**BATCH NUMBER 1014**

<b>Description:</b>	RAT ANTI MOUSE Ly-6B.2 ALLOANTIGEN
<b>Specificity:</b>	Ly-6B.2 ALLOANTIGEN
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	7/4
<b>Isotype:</b>	IgG2a
<b>Quantity:</b>	25 µg

## 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](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	▪			1/50 - 1/100
Immunohistology - Frozen	▪			
Immunohistology - Paraffin	▪			
ELISA			▪	
Immunoprecipitation			▪	
Western Blotting	▪			
Immunofluorescence	▪			

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 their own system using appropriate negative/positive controls.

<b>Target Species</b>	Mouse
<b>Product Form</b>	Purified IgG - liquid
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant.
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.09% Sodium Azide

<b>Carrier Free</b>	Yes
<b>Approx. Protein Concentrations</b>	IgG concentration 1.0 mg/ml
<b>Immunogen</b>	Cultured bone marrow cells
<b>RRID</b>	AB_1102794
<b>Fusion Partners</b>	Spleen cells from AO rats were fused with cells from the Y3 Ag1.2.3 rat myeloma cell line.
<b>Specificity</b>	<p><b>Rat anti Mouse Ly-6B.2 monoclonal antibody, clone 7/4</b> recognizes the Ly-6B.2 antigen. Ly-6B.2 is a ~25-30 kDa GPI-anchored, heavily glycosylated protein expressed on neutrophils, inflammatory monocytes and some activated macrophages (<a href="#">Rosas et al. 2010</a>). High levels of expression are seen in bone marrow, spleen, lung and lymph nodes. N-glycanase treatment of thioglycollate elicited peritoneal neutrophil lysates lowers the apparent molecular weight of Ly-6B.2 to ~15 kDa (<a href="#">Rosas et al.2010</a>).</p> <p>In common with other Ly-6 antigens Ly-6B.2 demonstrates a <a href="#">polymorphic</a> expression on inbred mouse strains (<a href="#">Kimura et al. 1984</a>). Rat anti mouse Ly-6B.2, clone 7/4 recognizes the Ly-6B.2 antigen in 129J; AKR; C57BL/6; C57BL/10; C58; DBA/2; NZB; NZW; SJL; MFI; Swiss (PO) Strains whilst A2G; A/Sn; ASW; BALB/c; C3H/HEH; CBA.T6T6 are negative or demonstrate very weak reactivity (<a href="#">Hirsch and Gordon 1982</a>).</p> <p>Rat anti mouse Ly-6B.2 has been successfully used for the immunomagnetic depletion of neutrophils during the enrichment of primitive hematopoietic cells from bone marrow (<a href="#">Bertoncello et al. 1991</a>) and the depletion of myeloid cells <i>in vivo</i> (<a href="#">Rosas et al. 2010</a>).</p>
<b>Flow Cytometry</b>	Use 10ul of the suggested working dilution to label 10 <sup>6</sup> cells in 100ul.
<b>References</b>	<ol style="list-style-type: none"> <li>Gordon, S. <i>et al.</i> (1992) Antigen markers of macrophage differentiation in murine tissues. <a href="#">Curr Top Microbiol Immunol. 181: 1-37.</a></li> <li>Horiba, M. <i>et al.</i> (2000) Neointima formation in a restenosis model is suppressed in midkine-deficient mice. <a href="#">J Clin Invest. 105: 489-95.</a></li> <li>Pyo, R. <i>et al.</i> (2000) Targeted gene disruption of matrix metalloproteinase-9 (gelatinase B) suppresses development of experimental abdominal aortic aneurysms. <a href="#">J Clin Invest. 105: 1641-9.</a></li> <li>Liao, C. <i>et al.</i> (2001) Altered myelopoiesis and the development of acute myeloid leukemia in transgenic mice overexpressing cyclin A1. <a href="#">Proc Natl Acad Sci U S A. 98: 6853-8.</a></li> <li>Song, Y. <i>et al.</i> (2001) A low level of TNF-alpha mediates hemorrhage-induced acute lung injury via p55 TNF receptor. <a href="#">Am J Physiol Lung Cell Mol Physiol. 281: L677-84.</a></li> <li>Singbartl, K. <i>et al.</i> (2001) Platelet, but not endothelial, P-selectin is critical for neutrophil-mediated acute postischemic renal failure. <a href="#">FASEB J. 15: 2337-44.</a></li> <li>Endlich, B. <i>et al.</i> (2002) Distinct temporal patterns of macrophage-inflammatory protein-2 and KC chemokine gene expression in surgical injury. <a href="#">J Immunol. 168: 3586-94.</a></li> <li>Lacroix-Lamandé, S. <i>et al.</i> (2002) Role of gamma interferon in chemokine expression in the ileum of mice and in a murine intestinal epithelial cell line after <i>Cryptosporidium</i></li> </ol>

- parvum infection. [Infect Immun. 70: 2090-9.](#)
9. Sato, J. *et al.* (2003) The fibrinolytic system in dissemination and matrix protein deposition during a mycobacterium infection. [Am J Pathol. 163: 517-31.](#)
10. Chen, Z. *et al.* (2004) Evidence for a role of macrophage migration inhibitory factor in vascular disease. [Arterioscler Thromb Vasc Biol. 24: 709-14.](#)
11. Lee, H.T. *et al.* (2004) A1 adenosine receptor activation inhibits inflammation, necrosis, and apoptosis after renal ischemia-reperfusion injury in mice. [J Am Soc Nephrol. 15: 102-11.](#)
12. Day, Y.J. *et al.* (2004) Protection from ischemic liver injury by activation of A2A adenosine receptors during reperfusion: inhibition of chemokine induction. [Am J Physiol Gastrointest Liver Physiol. 286: G285-93.](#)
13. Crockett, E.T. *et al.* (2004) Gene deletion of P-Selectin and ICAM-1 does not inhibit neutrophil infiltration into peritoneal cavity following cecal ligation-puncture. [BMC Clin Pathol. 4: 2](#)
14. Kaur, S. *et al.* (2004) Acidic duodenal pH alters gene expression in the cystic fibrosis mouse pancreas. [Am J Physiol Gastrointest Liver Physiol. 287 \(2\): G480-90.](#)
15. Thatcher, T.H. *et al.* (2005) Role of CXCR2 in cigarette smoke-induced lung inflammation. [Am J Physiol Lung Cell Mol Physiol. 289: L322-8.](#)
16. Iwaki, T. *et al.* (2005) A cardioprotective role for the endothelial protein C receptor in lipopolysaccharide-induced endotoxemia in the mouse. [Blood. 105: 2364-71.](#)
17. Word, R.A. *et al.* (2005) Transgene insertion on mouse chromosome 6 impairs function of the uterine cervix and causes failure of parturition. [Biol Reprod. 73 \(5\): 1046-56.](#)
18. Sasaki, T. *et al.* (2006) A simple method of plaque rupture induction in apolipoprotein E-deficient mice. [Arterioscler Thromb Vasc Biol. 26: 1304-9.](#)
19. Chen, C.J. *et al.* (2006) MyD88-dependent IL-1 receptor signaling is essential for gouty inflammation stimulated by monosodium urate crystals. [J Clin Invest. 2006 Aug;116\(8\):2262-71.](#)
20. Timmons, B.C. & Mahendroo, M.S. (2006) Timing of neutrophil activation and expression of proinflammatory markers do not support a role for neutrophils in cervical ripening in the mouse. [Biol Reprod. 74: 236-45.](#)
21. Morison, N.B. *et al.* (2007) The long-term actions of etonogestrel and levonorgestrel on decidualized and non-decidualized endometrium in a mouse model mimic some effects of progestogen-only contraceptives in women. [Reproduction. 133: 309-21.](#)
22. Cheng, C.W. *et al.* (2007) Quantitative cellular and molecular analysis of the effect of progesterone withdrawal in a murine model of decidualization. [Biol Reprod. 76: 871-83.](#)
23. Tsou, C.L. *et al.* (2007) Critical roles for CCR2 and MCP-3 in monocyte mobilization from bone marrow and recruitment to inflammatory sites. [J Clin Invest. 117: 902-9.](#)
24. Clark, J.D. *et al.* (2007) Morphine reduces local cytokine expression and neutrophil infiltration after incision. [Mol Pain. 3:28.](#)
25. Laubitz, D. *et al.* (2008) Colonic gene expression profile in NHE3-deficient mice: evidence for spontaneous distal colitis. [Am J Physiol Gastrointest Liver Physiol. 295: G63-G77.](#)
26. Shornick, L.P. *et al.* (2008) Airway epithelial versus immune cell Stat1 function for innate defense against respiratory viral infection. [J Immunol. 180: 3319-28.](#)
27. Kato, N. *et al.* (2009) The E-selectin ligand basigin/CD147 is responsible for neutrophil recruitment in renal ischemia/reperfusion. [J Am Soc Nephrol. 20: 1565-76.](#)

28. Lacroix-Lamandé, S. *et al.* (2009) Neonate intestinal immune response to CpG oligodeoxynucleotide stimulation. [PLoS One. 4: e8291.](#)
29. Park, S.W. *et al.* (2009) Human activated protein C attenuates both hepatic and renal injury caused by hepatic ischemia and reperfusion injury in mice. [Kidney Int. 76 \(7\): 739-50.](#)
30. Locke, L.W. (2009) A novel neutrophil-specific PET imaging agent: cFLFLFK-PEG-64Cu. [J Nucl Med. 50: 790-7.](#)
31. Omari, K.M. *et al.* (2009) Neuroprotection and remyelination after autoimmune demyelination in mice that inducibly overexpress CXCL1. [Am J Pathol. 174: 164-76.](#)
32. Plüddemann, A. (2009) The macrophage scavenger receptor A is host-protective in experimental meningococcal septicaemia. [PLoS Pathog. 5:e1000297.](#)
33. Lech, M. *et al.* (2009) Resident dendritic cells prevent postischemic acute renal failure by help of single Ig IL-1 receptor-related protein. [J Immunol. 183: 4109-18.](#)
34. Bombardelli, L. *et al.* (2010) Pancreas-specific ablation of beta1 integrin induces tissue degeneration by disrupting acinar cell polarity. [Gastroenterology. 138: 2531-40.](#)
35. Schneider, D.J. *et al.* (2010) Adenosine and osteopontin contribute to the development of chronic obstructive pulmonary disease. [FASEB J. 24: 70-80.](#)
36. Rosas, M. *et al.* (2010) The myeloid 7/4-antigen defines recently generated inflammatory macrophages and is synonymous with Ly-6B. [J Leukoc Biol. 88 \(1\): 169-80.](#)
37. Smalley-Freed, W.G. *et al.* (2010) p120-catenin is essential for maintenance of barrier function and intestinal homeostasis in mice. [J Clin Invest. 120: 1824-35.](#)
38. Lassen, S. *et al.* (2010) Ischemia reperfusion induces IFN regulatory factor 4 in renal dendritic cells, which suppresses postischemic inflammation and prevents acute renal failure [J Immunol. 185: 1976-83.](#)
39. Kim, M. *et al.* (2010) Selective renal overexpression of human heat shock protein 27 reduces renal ischemia-reperfusion injury in mice. [Am J Physiol Renal Physiol. 299: F347-58.](#)
40. Shi, H. *et al.* (2010) MAP kinase phosphatase-1 deficiency impairs skeletal muscle regeneration and exacerbates muscular dystrophy. [FASEB J. 24: 2985-97.](#)
41. Nadeau, S. *et al.* (2011) Functional Recovery after Peripheral Nerve Injury is Dependent on the Pro-Inflammatory Cytokines IL-1{beta} and TNF: Implications for Neuropathic Pain. [J Neurosci. 31: 12533-12542.](#)
42. Guerriero, J.L. *et al.* (2011) DNA alkylating therapy induces tumor regression through an HMGB1-mediated activation of innate immunity. [J Immunol. 186: 3517-26.](#)
43. Yellon, S.M. *et al.* (2011) Remodeling of the cervix and parturition in mice lacking the progesterone receptor B isoform. [Biol Reprod. 85: 498-502.](#)
44. Frossard, J.L. *et al.* (2011) Role of CCL-2, CCR-2 and CCR-4 in cerulein-induced acute pancreatitis and pancreatitis-associated lung injury. [J Clin Pathol. 64: 387-93.](#)
45. McDonald, J.U. *et al.* (2011) *In vivo* functional analysis and genetic modification of in vitro-derived mouse neutrophils. [FASEB J. 25: 1972-82.](#)
46. Larmonier, C.B. *et al.* (2011) NHE3 modulates the severity of colitis in IL-10-deficient mice. [Am J Physiol Gastrointest Liver Physiol. 300: G998-G1009.](#)
47. Allam, R. *et al.* (2011) Cyclic Polypeptide and Aminoglycoside Antibiotics Trigger IL-1{beta} Secretion by Activating the NLRP3 Inflammasome. [J Immunol. 186: 2714-8.](#)
48. Holt, R. *et al.* (2011) The Molecular Mechanisms of Cervical Ripening Differ between Term and Preterm Birth. [Endocrinology. 152: 1036-46.](#)
49. Chatterjee, S. *et al.* (2013) Junctional adhesion molecule-A regulates vascular

- endothelial growth factor receptor-2 signaling-dependent mouse corneal wound healing. [PLoS One. 8 \(5\): e63674.](#)
50. Brulhart-Meynet, M.C. *et al.* (2015) Improving Reconstituted HDL Composition for Efficient Post-Ischemic Reduction of Ischemia Reperfusion Injury. [PLoS One. 10 \(3\): e0119664.](#)
51. Patel, J. *et al.* (2015) RGS1 regulates myeloid cell accumulation in atherosclerosis and aortic aneurysm rupture through altered chemokine signalling. [Nat Commun. 6: 6614.](#)
52. Hamers, A.A. *et al.* (2015) Deficiency of Nuclear Receptor Nur77 Aggravates Mouse Experimental Colitis by Increased NFκB Activity in Macrophages. [PLoS One. 10 \(8\): e0133598.](#)
53. Ao, M. *et al.* (2015) Dental Infection of *Porphyromonas gingivalis* Induces Preterm Birth in Mice. [PLoS One. 10 \(8\): e0137249.](#)
54. Cnops, J. *et al.* (2015) NK-, NKT- and CD8-Derived IFNγ Drives Myeloid Cell Activation and Erythrophagocytosis, Resulting in Trypanosomiasis-Associated Acute Anemia. [PLoS Pathog. 11 \(6\): e1004964.](#)
55. Kjellman, P. *et al.* (2015) Size-dependent lymphatic uptake of nanoscale-tailored particles as tumor mass increases. [Future Sci OA. 1 \(4\): FSO60.](#)
56. Wan, W. *et al.* (2015) Atypical chemokine receptor 1 deficiency reduces atherogenesis in ApoE-knockout mice. [Cardiovasc Res. 106 \(3\): 478-87.](#)
57. Kidoya, H. *et al.* (2015) APJ Regulates Parallel Alignment of Arteries and Veins in the Skin. [Dev Cell. 33 \(3\): 247-59.](#)
58. Brennan, F.H. *et al.* (2015) The Complement Receptor C5aR Controls Acute Inflammation and Astrogliaosis following Spinal Cord Injury. [J Neurosci. 35 \(16\): 6517-31.](#)
59. Wang, S. *et al.* (2016) Increased hepatic receptor interacting protein kinase 3 expression due to impaired proteasomal functions contributes to alcohol-induced steatosis and liver injury. [Oncotarget. 7 \(14\): 17681-98.](#)
60. Ni, H.M. *et al.* (2016) Caspase Inhibition Prevents Tumor Necrosis Factor-α-Induced Apoptosis and Promotes Necrotic Cell Death in Mouse Hepatocytes *in Vivo* and *in Vitro*. [Am J Pathol. 186 \(10\): 2623-36.](#)
61. Morris, A.H. *et al.* (2016) Inadequate Processing of Decellularized Dermal Matrix Reduces Cell Viability *In Vitro* and Increases Apoptosis and Acute Inflammation *In Vivo*. [Biores Open Access. 5 \(1\): 177-87.](#)
62. Rabadi, M. *et al.* (2016) Peptidyl arginine deiminase-4-deficient mice are protected against kidney and liver injury after renal ischemia and reperfusion. [Am J Physiol Renal Physiol. 311 \(2\): F437-49.](#)
63. Laubitz, D. *et al.* (2016) Reduced Epithelial Na<sup>+</sup>/H<sup>+</sup> Exchange Drives Gut Microbial Dysbiosis and Promotes Inflammatory Response in T Cell-Mediated Murine Colitis. [PLoS One. 11 \(4\): e0152044.](#)
64. Farrar, C.A. *et al.* (2016) Collectin-11 detects stress-induced L-fucose pattern to trigger renal epithelial injury. [J Clin Invest. 126 \(5\): 1911-25.](#)
65. Zhao, Y. *et al.* (2016) Rapamycin prevents bronchiolitis obliterans through increasing infiltration of regulatory B cells in a murine tracheal transplantation model. [J Thorac Cardiovasc Surg. 151 \(2\): 487-496.e3.](#)
66. Choi, E. *et al.* (2016) Expression of Activated Ras in Gastric Chief Cells of Mice Leads to the Full Spectrum of Metaplastic Lineage Transitions. [Gastroenterology. 150 \(4\): 918-30.e13.](#)
67. Nguyen, H.T. & Shen, H. (2016) The effect of PEGylation on the stimulation of IL-1β

- by gold (Au) nanoshell/silica core nanoparticles. [J Mater Chem B Mater Biol Med. 4 \(9\): 1650-9.](#)
68. Boal, F. *et al.* (2016) PI5P Triggers ICAM-1 Degradation in *Shigella* Infected Cells, Thus Dampening Immune Cell Recruitment. [Cell Rep. 14 \(4\): 750-9.](#)
69. Cardenas, H. *et al.* (2016) Dietary Apigenin Exerts Immune-Regulatory Activity in Vivo by Reducing NF- $\kappa$ B Activity, Halting Leukocyte Infiltration and Restoring Normal Metabolic Function. [Int J Mol Sci. 17 \(3\): 323.](#)
70. Wieser, V. *et al.* (2016) Lipocalin 2 drives neutrophilic inflammation in alcoholic liver disease. [J Hepatol. 64 \(4\): 872-80.](#)
71. Konrad, F.M. *et al.* (2019) How Adhesion Molecule Patterns Change While Neutrophils Traffic through the Lung during Inflammation. [Mediators Inflamm. 2019: 1208086.](#)
72. Jung, P.E. *et al.* (2020) Honokiol Protects the Kidney from Renal Ischemia and Reperfusion Injury by Upregulating the Glutathione Biosynthetic Enzymes. [Biomedicines. 8 \(9\): 352.](#)
73. Han, Y. *et al.* (2020) Close Homolog of L1 Deficiency Exacerbated Intestinal Epithelial Barrier Function in Mouse Model of Dextran Sulfate Sodium-Induced Colitis. [Front Physiol. 11: 584508.](#)
74. Tilstra, J.S. *et al.* (2020) B cell-intrinsic TLR9 expression is protective in murine lupus. [J Clin Invest. 130 \(6\): 3172-3187.](#)
75. Gordon, R.A. *et al.* (2020) Murine lupus is neutrophil elastase-independent in the MRL.Fas<sup>lpr</sup> model. [PLoS One. 15 \(4\): e0226396.](#)
76. Hawkins, R.B. *et al.* (2021) Mesenchymal Stem Cells Alter MicroRNA Expression and Attenuate Thoracic Aortic Aneurysm Formation. [J Surg Res. 268: 221-31.](#)
77. Leinweber, J. *et al.* (2021) Elastase inhibitor agaphelin protects from acute ischemic stroke in mice by reducing thrombosis, blood-brain barrier damage, and inflammation. [Brain Behav Immun. S0889-1591\(20\)32485-5.](#)
78. Matsumoto, K. *et al.* (2021) Juvenile social defeat stress exposure favors in later onset of irritable bowel syndrome-like symptoms in male mice. [Sci Rep. 11 \(1\): 16276.](#)
79. Filiberto, A.C. *et al.* (2022) Endothelial pannexin-1 channels modulate macrophage and smooth muscle cell activation in abdominal aortic aneurysm formation. [Nat Commun. 13 \(1\): 1521.](#)
80. Chute, M. *et al.* (2022) ADAM15 is required for optimal collagen cross-linking and scar formation following myocardial infarction. [Matrix Biol. 105: 127-43.](#)
81. Beuker, C. *et al.* (2022) Stroke induces disease-specific myeloid cells in the brain parenchyma and pia. [Nat Commun. 13 \(1\): 945.](#)
82. Zheng, Z. *et al.* (2022) Role of TRPC6 in kidney damage after acute ischemic kidney injury. [Sci Rep. 12 \(1\): 3038.](#)
83. Lyubenov, L. *et al.* (2022) Intravenous Glu-plasminogen attenuates cholesterol crystal embolism-induced thrombotic angiopathy, acute kidney injury and kidney infarction. [Nephrol Dial Transplant. gfac273.](#)
84. Haruta, Y. *et al.* (2022) Zinc chelator treatment in crush syndrome model mice attenuates ischemia-reperfusion-induced muscle injury due to suppressing of neutrophil infiltration. [Sci Rep. 12 \(1\): 15580.](#)
85. Byts, N. *et al.* (2022) Inactivation of mouse transmembrane prolyl 4-hydroxylase increases blood brain barrier permeability and ischemia-induced cerebral neuroinflammation. [J Biol Chem. 298 \(3\): 101721.](#)
86. Salmon, M. *et al.* (2022) Genetic and Pharmacological Disruption of Interleukin-1 $\alpha$

- Leads to Augmented Murine Aortic Aneurysm. [Ann Vasc Surg. 85: 358-370.](#)
87. Dardenne, C. *et al.* (2022) Topical Aspirin Administration Improves Cutaneous Wound Healing in Diabetic Mice Through a Phenotypic Switch of Wound Macrophages Toward an Anti-inflammatory and Proresolutive Profile Characterized by LXA4 Release. [Diabetes. 71 \(10\): 2181-96.](#)
88. Di Santo, C.*et al.* (2023) Characterization of the Involvement of Tumour Necrosis Factor (TNF)- $\alpha$ -Stimulated Gene 6 (TSG-6) in Ischemic Brain Injury Caused by Middle Cerebral Artery Occlusion in Mouse [Int J Mol Sci. 24 \(6\): 5800.](#)
89. Yang, L. *et al.* (2023) Both hyperglycemia and hyperuricemia aggravate acute kidney injury during cholesterol embolism syndrome despite opposite effects on kidney infarct size. [Kidney Int. 104 \(1\): 139-150.](#)
90. Klement, K. *et al.* (2023) Phosphorylation of axin within biomolecular condensates counteracts its tankyrase-mediated degradation. [J Cell Sci. 136 \(20\): jcs261214.](#)
91. Ladd, Z. *et al.* (2023) Pharmacologic inhibition by spironolactone attenuates experimental abdominal aortic aneurysms. [Front Cardiovasc Med. 10: 1101389.](#)
92. Gilfillan, C.B. *et al.* (2018) Clec9A(+) Dendritic Cells Are Not Essential for Antitumor CD8(+) T Cell Responses Induced by Poly I:C Immunotherapy. [J Immunol. 200 \(8\): 2978-86.](#)
93. Lopes, J.P. *et al.* (2018) Evasion of Immune Surveillance in Low Oxygen Environments Enhances *Candida albicans* Virulence. [mBio. 9 \(6\): e02120-18.](#)
94. Howard, M.C. *et al.* (2020) I-Fucose prevention of renal ischaemia/reperfusion injury in Mice. [FASEB J. 34 \(1\): 822-34.](#)
95. Grist, J.J. *et al.* (2018) Induced CNS expression of CXCL1 augments neurologic disease in a murine model of multiple sclerosis via enhanced neutrophil recruitment. [Eur J Immunol. 48 \(7\): 1199-210.](#)
96. Urbchat, A. *et al.* (2018) Systemic TLR2 Antibody Application in Renal Ischaemia and Reperfusion Injury Decreases AKT Phosphorylation and Increases Apoptosis in the Mouse Kidney. [Basic Clin Pharmacol Toxicol. 122 \(2\): 223-32.](#)
97. Li, N. *et al.* (2021) IRF8-Dependent Type I Conventional Dendritic Cells (cDC1s) Control Post-Ischemic Inflammation and Mildly Protect Against Post-Ischemic Acute Kidney Injury and Disease. [Front Immunol. 12: 685559.](#)
98. K&ouml;rnier, A. *et al.* (2023) Semaphorin 7A is protective during inflammatory peritonitis through integrin receptor signaling. [Front Immunol. 14: 1251026.](#)
99. McNeill, E. *et al.* (2015) Hydrodynamic Gene Delivery of CC Chemokine Binding Fc Fusion Proteins to Target Acute Vascular Inflammation *In Vivo*. [Sci Rep. 5: 17404.](#)
100. Martin, K. *et al.* (2020) Requirement of Mucosa-Associated Lymphoid Tissue Lymphoma Translocation Protein 1 Protease Activity for Fc $\gamma$  Receptor-Induced Arthritis, but Not Fc $\gamma$  Receptor-Mediated Platelet Elimination, in Mice. [Arthritis Rheumatol. 72 \(6\): 919-30.](#)
101. Shannon, A.H. *et al.* (2020) Single-Photon Emission Computed Tomography Imaging Using Formyl Peptide Receptor 1 Ligand Can Diagnose Aortic Aneurysms in a Mouse Model. [J Surg Res. 251: 239-47.](#)
102. Markert, C. *et al.* (2021) Discovery of LYS006, a Potent and Highly Selective Inhibitor of Leukotriene A(4) Hydrolase. [J Med Chem. 64 \(4\): 1889-903.](#)
103. von Rauchhaupt, E. *et al.* (2024) GDF-15 Suppresses Puromycin Aminonucleoside-Induced Podocyte Injury by Reducing Endoplasmic Reticulum Stress and Glomerular Inflammation [Cells. 13 \(7\): 637.](#)

104. Wang, Y. *et al.* (2021) Aging Affects K(V)7 Channels and Perivascular Adipose Tissue-Mediated Vascular Tone. [Front Physiol. 12: 749709.](#)
105. Köhler, D. *et al.* (2024) Targeting Gα(i2) in neutrophils protects from myocardial ischemia reperfusion injury. [Basic Res Cardiol. May 30 \[Epub ahead of print\].](#)
106. Gui, Y. *et al.* (2020) Schisantherin A attenuates sepsis-induced acute kidney injury by suppressing inflammation via regulating the NRF2 pathway. [Life Sci. 258: 118161.](#)
107. Amantea, D. *et al.* (2022) Ischemic Preconditioning Modulates the Peripheral Innate Immune System to Promote Anti-Inflammatory and Protective Responses in Mice Subjected to Focal Cerebral Ischemia. [Front Immunol. 13: 825834.](#)
108. Jütte, B.B. *et al.* (2021) Intercellular cGAMP transmission induces innate immune activation and tissue inflammation in Trex1 deficiency. [iScience. 24 \(8\): 102833.](#)
109. Schuhmann, M.K. *et al.* (2020) CD84 Links T Cell and Platelet Activity in Cerebral Thrombo-Inflammation in Acute Stroke. [Circ Res. 127 \(8\): 1023-35.](#)
110. Beckmann, N. *et al.* (2020) IFN $\gamma$  and TNF $\alpha$  mediate CCL22/MDC production in alveolar macrophages after hemorrhage and resuscitation. [Am J Physiol Lung Cell Mol Physiol. 318 \(5\): L864-L872.](#)
111. Ngamsri, K.C. *et al.* (2021) Sevoflurane Exerts Protective Effects in Murine Peritonitis-induced Sepsis via Hypoxia-inducible Factor 1 $\alpha$ /Adenosine A2B Receptor Signaling. [Anesthesiology. 135 \(1\): 136-50.](#)
112. Di Santo, C. *et al.* (2024) Brain Ischemic Tolerance Triggered by Preconditioning Involves Modulation of Tumor Necrosis Factor- $\alpha$ -Stimulated Gene 6 (TSG-6) in Mice Subjected to Transient Middle Cerebral Artery Occlusion. [Curr Issues Mol Biol. 46 \(9\): 9970-83.](#)
113. 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.](#)

<b>Storage</b>	Store at +4°C. DO NOT FREEZE. This product should be stored undiluted. Should this product contain a precipitate we recommend microcentrifugation before use.
<b>Guarantee</b>	12 months from date of despatch
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10040 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA771GT">https://www.bio-rad-antibodies.com/SDS/MCA771GT</a> 10040
<b>Regulatory</b>	For research purposes only

## Related Products

### Recommended Secondary Antibodies

Rabbit Anti Rat IgG (STAR16...)	<a href="#">DyLight®800</a>
Rabbit Anti Rat IgG (STAR17...)	<a href="#">FITC</a>
Goat Anti Rat IgG (STAR69...)	<a href="#">FITC</a>
Goat Anti Rat IgG (STAR73...)	<a href="#">RPE</a>
Rabbit Anti Rat IgG (STAR21...)	<a href="#">HRP</a>



Goat Anti Rat IgG (MOUSE ADSORBED) (STAR71...) [DyLight®550](#), [DyLight®650](#), [DyLight®800](#)

Goat Anti Rat IgG (STAR131...)

[Alk. Phos.](#), [Biotin](#)

Goat Anti Rat IgG (STAR72...)

[HRP](#)

## Recommended Negative Controls

[RAT IgG2a NEGATIVE CONTROL \(MCA1212\)](#)

**North & South** Tel: +1 800 265 7376

**Worldwide**

Tel: +44 (0)1865 852 700

**Europe**

Tel: +49 (0) 89 8090 95 21

**America** Fax: +1 919 878 3751

Fax: +44 (0)1865 852 739

Fax: +49 (0) 89 8090 95 50

Email: [antibody\\_sales\\_us@bio-rad.com](mailto:antibody_sales_us@bio-rad.com)

Email: [antibody\\_sales\\_uk@bio-rad.com](mailto:antibody_sales_uk@bio-rad.com)

Email: [antibody\\_sales\\_de@bio-rad.com](mailto:antibody_sales_de@bio-rad.com)

To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://bio-rad-antibodies.com/datasheets)

'M368939:200529'

Printed on 30 Jan 2025

---

© 2025 Bio-Rad Laboratories Inc | [Legal](#) | [Imprint](#)