

Datasheet: MCA2388A488T BATCH NUMBER 151913

Description:	RAT ANTI MOUSE CD31:Alexa Fluor® 488	
Specificity:	CD31	
Other names:	PECAM-1	
Format:	ALEXA FLUOR® 488	
Product Type:	Monoclonal Antibody	
Clone:	ER-MP12	
lsotype:	lgG2a	
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 <u>www.bio-rad-antibodies.com/protocols</u> .				
		Yes No	Not Determine	d Suggested Dilution	
	Flow Cytometry			Neat - 1/5	
	Where this antibody have necessarily exclude its a guide only. It is reconsistent using appropri	as not been tested s use in such proce mmended that the ate negative/positiv	for use in a particula dures. Suggested we user titrates the antil ve controls.	Ir technique this does not orking dilutions are given as body for use in their own	
Target Species	Mouse				
Product Form	Purified IgG conjugate	d to Alexa Fluor®4	88 - liquid		
Max Ex/Em	Fluorophore	Excitation Max (nr	n) Emission Max (n	m)	
	Alexa Fluor®488	495	519		
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				
Approx. Protein	IgG concentration 0.08	5 mg/ml			

Concentrations

Immunogen	unogen BALB/c macrophage precursor cell hybrids	
External Database Links	UniProt:Q08481Related reagentsEntrez Gene:18613Pecam1Related reagents	
Synonyms	Pecam, Pecam-1	
RRID	AB_1101893	
Fusion Partners	Cells from immunised rats were fused with the cells of the rat Y line	′3-Ag1.2.3 myeloma cell
Specificity	Rat anti Mouse CD31 antibody, clone ER-MP12 recognizes mouse CD31, a 140 kDa cell surface glycoprotein that is expressed at high levels on endothelial cells, platelets and most leukocyte subpopulations.	
	CD31 is also expressed on a major population of macrophage the bone marrow. Studies show that clone ER-MP12 can be us clone ER-MP20 (MCA2389GA) in two colour flow cytometric ar stages of myeloid progenitor cells in mouse bone marrow (de E	/ dendritic cell precursors in ed in conjunction with nalysis, to identify different <u>Bruijn <i>et al.</i> 1998</u>).
Flow Cytometry	Use10ul of the suggested working dilution to label 10 ⁶ cells in ²	100ul.
References	 Leenen, P.J. <i>et al.</i> (1990) Murine macrophage precursor cha antibodies against macrophage precursor antigens. <u>Eur J Immu</u> Wynn, A.A. <i>et al.</i> (2001) Role of granulocyte/macrophage co zymocel-induced hepatic granuloma formation. <u>Am J Pathol. 18</u> de Bruijn, M.F. <i>et al.</i> (1998) Bone marrow cellular composition monocytogenes infected mice detected using ER-MP12 and EF cytometric alternative to differential counting. <u>J Immunol Methon</u> Revermann, M. <i>et al.</i> (2010) Soluble epoxide hydrolase defice formation in the femoral cuff model of hyperlipidemic mice. <u>Arter</u> <u>30: 909-14.</u> Thorp, E. <i>et al.</i> (2011) A reporter for tracking the UPR in vivo temporal and cellular stress during atherosclerotic progression. <u>1033-8.</u> Thum, T. <i>et al.</i> (2011) Impairment of endothelial progenitor co vascularization capacity by aldosterone in mice and humans. <u>E</u> 7. Ross, E.A. <i>et al.</i> (2011) CD31 Is Required on CD4+ T Cells during <i>Salmonella</i> Infection. <u>J Immunol. 187: 1553-65.</u> Geutskens, S.B. <i>et al.</i> (2005) Macrophages in the murine pa involvement in fetal endocrine development <i>in vitro</i>. <u>J Leukoc E</u> 	racterization. II. Monoclonal unol. 20 (1): 27-34. lony-stimulating factor in 58 (1): 131-45. on in Listeria R-MP20 antibodies: a flow ds. 217 (1-2): 27-39. ciency attenuates neointima erioscler Thromb Vasc Biol. o reveals patterns of J Lipid Res. 52 (5): ell function and fur Heart J. 32: 1275-86. To Promote T Cell Survival ncreas and their Biol. 78: 845-52.

9. Schledzewski, K. *et al.* (2011) Deficiency of liver sinusoidal scavenger receptors stabilin-1 and -2 in mice causes glomerulofibrotic nephropathy via impaired hepatic clearance of noxious blood factors. J Clin Invest. 121: 703-14.

10. Sumagin, R. and Sarelius, I.H. (2010) Intercellular adhesion molecule-1 enrichment near tricellular endothelial junctions is preferentially associated with leukocyte transmigration and signals for reorganization of these junctions to accommodate leukocyte passage. J Immunol. 184: 5242-52.

11. Loureiro, J. *et al.* (2011) Blocking TGF-{beta}1 Protects the Peritoneal Membrane from Dialysate-Induced Damage. <u>J Am Soc Nephrol. 22: 1682-95.</u>

12. Matsakas, A. *et al.* (2012) Exercise training attenuates the hypermuscular phenotype and restores skeletal muscle function in the myostatin null mouse. <u>Exp Physiol. 97 (1):</u> 125-40.

13. Baumeister, T. *et al.* (2003) Interleukin-3Ralpha+ myeloid dendritic cells and mast cells develop simultaneously from different bone marrow precursors in cultures with interleukin-3. J Invest Dermatol. 121: 280-8.

Moen, I. *et al.* (2012) Gene expression in tumor cells and stroma in dsRed 4T1 tumors in eGFP-expressing mice with and without enhanced oxygenation. <u>BMC Cancer. 12: 21.</u>
 Trottier, M.D. *et al.* (2012) Enhanced production of early lineages of monocytic and granulocytic cells in mice with colitis Proc Natl Acad Sci U S A.109: 16594-9.

16. Ling, V. *et al.* (1997) Structural identification of the hematopoietic progenitor antigen ER-MP12 as the vascular endothelial adhesion molecule PECAM-1 (CD31). <u>Eur J</u> Immunol. 27:509-14.

17. Nikolic, T. *et al.* (2002) Developmental stages of myeloid dendritic cells in mouse bone marrow. <u>Int Immunol. 15:515-24.</u>

18. Tagoh, H. *et al.* (2002) Transcription factor complex formation and chromatin fine structure alterations at the murine c-fms (CSF-1 receptor) locus during maturation of myeloid precursor cells. <u>Genes Dev. 16:1721-37.</u>

19. van Rijt, L. *et al.* (2002) Allergen-induced accumulation of airway dendritic cells is supported by an increase in CD31(hi)Ly-6C(neg) bone marrow precursors in a mouse model of asthma. <u>Blood. 100:3663-71.</u>

20. van der Loo, J. *et al.* (1995) Identification of hematopoietic stem cell subsets on the basis of their primitiveness using antibody ER-MP12. <u>Blood. 85:952-62.</u>

21. Fraccarollo, D. *et al.* (2015) Efficacy of mineralocorticoid receptor antagonism in the acute myocardial infarction phase: eplerenone versus spironolactone <u>ESC Heart Failure. 2</u> (3): 150-8.

22. Stein-Merlob, A.F. *et al.* (2015) Blood Accessibility to Fibrin in Venous Thrombosis is Thrombus Age-Dependent and Predicts Fibrinolytic Efficacy: An *In Vivo* Fibrin Molecular Imaging Study. <u>Theranostics. 5 (12): 1317-27.</u>

23. Yip, H.K. *et al.* (2016) Tissue plasminogen activator deficiency preserves neurological function and protects against murine acute ischemic stroke. <u>Int J Cardiol. 205: 133-41.</u>
24. Shi, H. *et al.* (2016) Hiding inside? Intracellular expression of non-glycosylated c-kit protein in cardiac progenitor cells. <u>Stem Cell Res. 16 (3): 795-806.</u>

25. Ono, N. *et al.* (2014) A subset of chondrogenic cells provides early mesenchymal progenitors in growing bones. <u>Nat Cell Biol. 16 (12): 1157-67.</u>

26. Kroon, P. *et al.* (2013) JAK-STAT blockade inhibits tumor initiation and clonogenic recovery of prostate cancer stem-like cells. <u>Cancer Res. 73 (16): 5288-98.</u>

27. Trottier MD et al. (2012) Enhancement of hematopoiesis and lymphopoiesis in

	diet-induced obese mice. <u>Proc Nati Acad Sci U S A. 109 (20): 7622-9.</u>	
	28. Ryan, T.E. <i>et al.</i> (2016) Mitochondrial therapy improves limb perfusion and myopathy	
	following hindlimb ischemia. J Mol Cell Cardiol. 97: 191-6.	
	29. Chowdhury, B. et al. (2016) Hyaluronidase 2 (HYAL2) is expressed in endothelial cells.	
	as well as some specialized epithelial cells, and is required for normal hyaluronan	
	catabolism Histochem Cell Biol. 1/5 (1): 53-66	
	20. Nekamura, X. at al. (2015) Mesonehumal atom call derived execomes accelerate	
	50. Nakamura, 1. et al. (2015) Mesenchymai-stem-cen-denved exosomes accelerate	
	skeletal muscle regeneration. FEBS Lett. 589 (11): 1257-65.	
	31. Reigstad, I. <i>et al.</i> (2016) The Effect of Stromal Integrin β 3-Deficiency on Two Different	
	Tumors in Mice. <u>Cancers (Basel). 8 (1): pii: E14.</u>	
	32. Cao Y <i>et al.</i> (2016) IL-1 β differently stimulates proliferation and multinucleation of	
	distinct mouse bone marrow osteoclast precursor subsets. J Leukoc Biol. 100 (3): 513-23.	
	33. Bongiorno, E.K. <i>et al.</i> (2017) Type 1 Immune Mechanisms Driven by the Response to	
	Infection with Attenuated Rabies Virus Result in Changes in the Immune Bias of the	
	Tumor Microenvironment and Necrosis of Mouse GL261 Brain Tumors, J Immunol, 198	
	(11): 4513-4523	
	$\frac{111}{2}$ = $\frac{1}{2}$ = $$	
	mauge brein L Comp Neural 522 (14): 2220 44	
	$\frac{1}{2} = \frac{1}{2} = \frac{1}$	
	35. Cao, Y. et al. (2017) TNF- α has both stimulatory and inhibitory effects on mouse	
	monocyte-derived osteoclastogenesis. <u>J Cell Physiol. 232 (12): 3273-85.</u>	
	36. Piro, J.R. et al. (2018) Inhibition of 2-AG hydrolysis differentially regulates blood brain	
	barrier permeability after injury. <u>J Neuroinflammation. 15 (1): 142.</u>	
	37. Ascone, G. et al. (2020) Increase in the Number of Bone Marrow Osteoclast	
	Precursors at Different Skeletal Sites, Particularly in Long Bone and Jaw Marrow in Mice	
	Precursors at Different Skeletal Sites, Particularly in Long Bone and Jaw Marrow in Mice Lacking IL-1RA. Int J Mol Sci. 21(11):3774.	
	Precursors at Different Skeletal Sites, Particularly in Long Bone and Jaw Marrow in Mice Lacking IL-1RA. Int J Mol Sci. 21(11):3774.	
Storage	Precursors at Different Skeletal Sites, Particularly in Long Bone and Jaw Marrow in Mice Lacking IL-1RA. Int J Mol Sci. 21(11):3774. Store at +4°C or at -20°C if preferred.	
Storage	Precursors at Different Skeletal Sites, Particularly in Long Bone and Jaw Marrow in Mice Lacking IL-1RA. Int J Mol Sci. 21(11):3774. Store at +4°C or at -20°C if preferred. Storage in frost-free freezers is not recommended.	
Storage	Precursors at Different Skeletal Sites, Particularly in Long Bone and Jaw Marrow in Mice Lacking IL-1RA. Int J Mol Sci. 21(11):3774. Store at +4°C or at -20°C if preferred. Storage in frost-free freezers is not recommended. This product should be stored undiluted. This product is photosensitive and should be	
Storage	Precursors at Different Skeletal Sites, Particularly in Long Bone and Jaw Marrow in Mice Lacking IL-1RA. Int J Mol Sci. 21(11):3774. Store at +4°C or at -20°C if preferred. Storage in frost-free freezers is not recommended. This product should be stored undiluted. This product is photosensitive and should be protected from light.	
Storage	Precursors at Different Skeletal Sites, Particularly in Long Bone and Jaw Marrow in Mice Lacking IL-1RA. Int J Mol Sci. 21(11):3774. Store at +4°C or at -20°C if preferred. Storage in frost-free freezers is not recommended. This product should be stored undiluted. This product is photosensitive and should be protected from light. Avoid repeated freezing and thawing as this may denature the antibody. Should this	
Storage	Precursors at Different Skeletal Sites, Particularly in Long Bone and Jaw Marrow in Mice Lacking IL-1RA. Int J Mol Sci. 21(11):3774. Store at +4°C or at -20°C if preferred. Storage in frost-free freezers is not recommended. This product should be stored undiluted. This product is photosensitive and should be protected from light. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use	
Storage	Precursors at Different Skeletal Sites, Particularly in Long Bone and Jaw Marrow in Mice Lacking IL-1RA. Int J Mol Sci. 21(11):3774. Store at +4°C or at -20°C if preferred. Storage in frost-free freezers is not recommended. This product should be stored undiluted. This product is photosensitive and should be protected from light. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.	
Storage Guarantee	Precursors at Different Skeletal Sites, Particularly in Long Bone and Jaw Marrow in Mice Lacking IL-1RA. Int J Mol Sci. 21(11):3774. Store at +4°C or at -20°C if preferred. Storage in frost-free freezers is not recommended. This product should be stored undiluted. This product is photosensitive and should be protected from light. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.	
Storage Guarantee	Precursors at Different Skeletal Sites, Particularly in Long Bone and Jaw Marrow in Mice Lacking IL-1RA. Int J Mol Sci. 21(11):3774. Store at +4°C or at -20°C if preferred. Storage in frost-free freezers is not recommended. This product should be stored undiluted. This product is photosensitive and should be protected from light. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.	
Storage Guarantee Acknowledgements	Precursors at Different Skeletal Sites, Particularly in Long Bone and Jaw Marrow in Mice Lacking IL-1RA. Int J Mol Sci. 21(11):3774. Store at +4°C or at -20°C if preferred. Storage in frost-free freezers is not recommended. This product should be stored undiluted. This product is photosensitive and should be protected from light. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use. 12 months from date of despatch This product is provided under an intellectual property licence from Life Technologies.	
Storage Guarantee Acknowledgements	Precursors at Different Skeletal Sites, Particularly in Long Bone and Jaw Marrow in Mice Lacking IL-1RA. Int J Mol Sci. 21(11):3774. Store at +4°C or at -20°C if preferred. Storage in frost-free freezers is not recommended. This product should be stored undiluted. This product is photosensitive and should be protected from light. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use. 12 months from date of despatch This product is provided under an intellectual property licence from Life Technologies Corporation. The transfer of this product is contingent on the buyer using the purchase	
Storage Guarantee Acknowledgements	Precursors at Different Skeletal Sites, Particularly in Long Bone and Jaw Marrow in Mice Lacking IL-1RA. Int J Mol Sci. 21(11):3774. Store at +4°C or at -20°C if preferred. Storage in frost-free freezers is not recommended. This product should be stored undiluted. This product is photosensitive and should be protected from light. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use. 12 months from date of despatch This product is provided under an intellectual property licence from Life Technologies Corporation. The transfer of this product is contingent on the buyer using the purchase	
Storage Guarantee Acknowledgements	Precursors at Different Skeletal Sites, Particularly in Long Bone and Jaw Marrow in Mice Lacking IL-1RA. Int J Mol Sci. 21(11):3774. Store at +4°C or at -20°C if preferred. Storage in frost-free freezers is not recommended. This product should be stored undiluted. This product is photosensitive and should be protected from light. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use. 12 months from date of despatch This product is provided under an intellectual property licence from Life Technologies Corporation. The transfer of this product is contingent on the buyer using the purchase product solely in research, excluding contract research or any fee for service research, and the buyer must not cell at a thermine transfer this product or its approaches for (a)	
Storage Guarantee Acknowledgements	Precursors at Different Skeletal Sites, Particularly in Long Bone and Jaw Marrow in Mice Lacking IL-1RA. Int J Mol Sci. 21(11):3774. Store at +4°C or at -20°C if preferred. Storage in frost-free freezers is not recommended. This product should be stored undiluted. This product is photosensitive and should be protected from light. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use. 12 months from date of despatch This product is provided under an intellectual property licence from Life Technologies Corporation. The transfer of this product is contingent on the buyer using the purchase product solely in research, excluding contract research or any fee for service research, and the buyer must not sell or otherwise transfer this product or its components for (a)	
Storage Guarantee Acknowledgements	Precursors at Different Skeletal Sites, Particularly in Long Bone and Jaw Marrow in Mice Lacking IL-1RA. Int J Mol Sci. 21(11):3774. Store at +4°C or at -20°C if preferred. Storage in frost-free freezers is not recommended. This product should be stored undiluted. This product is photosensitive and should be protected from light. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use. 12 months from date of despatch This product is provided under an intellectual property licence from Life Technologies Corporation. The transfer of this product is contingent on the buyer using the purchase product solely in research, excluding contract research or any fee for service research, and the buyer must not sell or otherwise transfer this product or its components for (a) diagnostic, therapeutic or prophylactic purposes; (b) testing, analysis or screening	
Storage Guarantee Acknowledgements	Precursors at Different Skeletal Sites, Particularly in Long Bone and Jaw Marrow in Mice Lacking IL-1RA. Int J Mol Sci. 21(11):3774. Store at +4°C or at -20°C if preferred. Storage in frost-free freezers is not recommended. This product should be stored undiluted. This product is photosensitive and should be protected from light. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use. 12 months from date of despatch This product is provided under an intellectual property licence from Life Technologies Corporation. The transfer of this product is contingent on the buyer using the purchase product solely in research, excluding contract research or any fee for service research, and the buyer must not sell or otherwise transfer this product or its components for (a) diagnostic, therapeutic or prophylactic purposes; (b) testing, analysis or screening services, or information in return for compensation on a per-test basis; (c) manufacturing	
Storage Guarantee Acknowledgements	Precursors at Different Skeletal Sites, Particularly in Long Bone and Jaw Marrow in Mice Lacking IL-1RA. Int J Mol Sci. 21(11):3774. Store at +4°C or at -20°C if preferred. Storage in frost-free freezers is not recommended. This product should be stored undiluted. This product is photosensitive and should be protected from light. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use. 12 months from date of despatch This product is provided under an intellectual property licence from Life Technologies Corporation. The transfer of this product is contingent on the buyer using the purchase product solely in research, excluding contract research or any fee for service research, and the buyer must not sell or otherwise transfer this product or its components for (a) diagnostic, therapeutic or prophylactic purposes; (b) testing, analysis or screening services, or information in return for compensation on a per-test basis; (c) manufacturing or quality assurance or quality control, or (d) resale, whether or not resold for use in	
Storage Guarantee Acknowledgements	Precursors at Different Skeletal Sites, Particularly in Long Bone and Jaw Marrow in Mice Lacking IL-1RA. Int J Mol Sci. 21(11):3774. Store at +4°C or at -20°C if preferred. Storage in frost-free freezers is not recommended. This product should be stored undiluted. This product is photosensitive and should be protected from light. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use. 12 months from date of despatch This product is provided under an intellectual property licence from Life Technologies Corporation. The transfer of this product is contingent on the buyer using the purchase product solely in research, excluding contract research or any fee for service research, and the buyer must not sell or otherwise transfer this product or its components for (a) diagnostic, therapeutic or prophylactic purposes; (b) testing, analysis or screening services, or information in return for compensation on a per-test basis; (c) manufacturing or quality assurance or quality control, or (d) resale, whether or not resold for use in research. For information on purchasing a license to this product for purposes other than	
Storage Guarantee Acknowledgements	Precursors at Different Skeletal Sites, Particularly in Long Bone and Jaw Marrow in Mice Lacking IL-1RA. Int J Mol Sci. 21(11):3774. Store at +4°C or at -20°C if preferred. Storage in frost-free freezers is not recommended. This product should be stored undiluted. This product is photosensitive and should be protected from light. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use. 12 months from date of despatch This product is provided under an intellectual property licence from Life Technologies Corporation. The transfer of this product is contingent on the buyer using the purchase product solely in research, excluding contract research or any fee for service research, and the buyer must not sell or otherwise transfer this product or its components for (a) diagnostic, therapeutic or prophylactic purposes; (b) testing, analysis or screening services, or information in return for compensation on a per-test basis; (c) manufacturing or quality assurance or quality control, or (d) resale, whether or not resold for use in research. For information on purchasing a license to this product for purposes other than as described above, contact Life Technologies Corporation, 5791 Van Allen Way, Carlsbad	
Storage Guarantee Acknowledgements	Precursors at Different Skeletal Sites, Particularly in Long Bone and Jaw Marrow in Mice Lacking IL-1RA. Int J Mol Sci. 21(11):3774. Store at +4°C or at -20°C if preferred. Storage in frost-free freezers is not recommended. This product should be stored undiluted. This product is photosensitive and should be protected from light. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use. 12 months from date of despatch This product is provided under an intellectual property licence from Life Technologies Corporation. The transfer of this product is contingent on the buyer using the purchase product solely in research, excluding contract research or any fee for service research, and the buyer must not sell or otherwise transfer this product or its components for (a) diagnostic, therapeutic or prophylactic purposes; (b) testing, analysis or screening services, or information in return for compensation on a per-test basis; (c) manufacturing or quality assurance or quality control, or (d) resale, whether or not resold for use in research. For information on purchasing a license to this product for purposes other than as described above, contact Life Technologies Corporation, 5791 Van Allen Way, Carlsbad CA 92008 USA or outlicensing@thermofisher.com	
Storage Guarantee Acknowledgements	Precursors at Different Skeletal Sites, Particularly in Long Bone and Jaw Marrow in Mice Lacking IL-1RA. Int J Mol Sci. 21(11):3774. Store at +4°C or at -20°C if preferred. Storage in frost-free freezers is not recommended. This product should be stored undiluted. This product is photosensitive and should be protected from light. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use. 12 months from date of despatch This product is provided under an intellectual property licence from Life Technologies Corporation. The transfer of this product is contingent on the buyer using the purchase product solely in research, excluding contract research or any fee for service research, and the buyer must not sell or otherwise transfer this product or its components for (a) diagnostic, therapeutic or prophylactic purposes; (b) testing, analysis or screening services, or information in return for compensation on a per-test basis; (c) manufacturing or quality assurance or quality control, or (d) resale, whether or not resold for use in research. For information on purchasing a license to this product for purposes other than as described above, contact Life Technologies Corporation, 5791 Van Allen Way, Carlsbad CA 92008 USA or outlicensing@thermofisher.com	
Storage Guarantee Acknowledgements Health And Safety	Precursors at Different Skeletal Sites, Particularly in Long Bone and Jaw Marrow in Mice Lacking IL-1RA. Int J Mol Sci. 21(11):3774. Store at +4°C or at -20°C if preferred. Storage in frost-free freezers is not recommended. This product should be stored undiluted. This product is photosensitive and should be protected from light. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use. 12 months from date of despatch This product is provided under an intellectual property licence from Life Technologies Corporation. The transfer of this product is contingent on the buyer using the purchase product solely in research, excluding contract research or any fee for service research, and the buyer must not sell or otherwise transfer this product or its components for (a) diagnostic, therapeutic or prophylactic purposes; (b) testing, analysis or screening services, or information in return for compensation on a per-test basis; (c) manufacturing or quality assurance or quality control, or (d) resale, whether or not resold for use in research. For information on purchasing a license to this product for purposes other than as described above, contact Life Technologies Corporation, 5791 Van Allen Way, Carlsbad CA 92008 USA or outlicensing@thermofisher.com Material Safety Datasheet documentation #10041 available at:	

Regulatory

For research purposes only

Related Products

Recommended Negative Controls

RAT IgG2a NEGATIVE CONTROL:Alexa Fluor® 488 (MCA1212A488)

Recommended Useful Reagents

MOUSE SEROBLOCK FcR (BUF041A) MOUSE SEROBLOCK FcR (BUF041B)

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	Email: antibody_sales_uk@bio-rad.com	Email: 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 'M366769:200529'

Printed on 16 Oct 2023

© 2023 Bio-Rad Laboratories Inc | Legal | Imprint