

Datasheet: MCA1258SBUV740 BATCH NUMBER 100007543

Description:	RAT ANTI MOUSE CD45R:StarBright UltraViolet 740		
Specificity:	CD45R		
Other names:	B220, LY-5		
Format:	StarBright UltraViolet 740		
Product Type:	Monoclonal Antibody		
Clone:	RA3-6B2		
Isotype:	lgG2a		
Quantity:	100 TESTS/0.5ml		

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 Determined	Suggested Dilution		
	Flow Cytometry			Neat		
	Where this product 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 product for use in their own system using appropriate negative/positive controls.					
Target Species	Mouse					
Species Cross Reactivity	Reacts with: Human, Cat N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.					
Product Form	Purified IgG conjugated to StarBright UltraViolet 740 - liquid					
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)			
	StarBright UltraViolet 740	344	743			
Preparation	Purified IgG prepared supernatant	by affinity chromato	graphy on Protein G fro	m tissue culture		

Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃) 1% Bovine Serum Albumin 0.1% Pluronic F68 0.1% PEG 3350 0.05% Tween 20
Immunogen	Murine leukemia-induced pre-B tumor cells (RAW112)
External Database Links	UniProt: P06800 Related reagents Entrez Gene: 19264 Ptprc Related reagents
Synonyms	Ly-5
Fusion Partners	Spleen cells from immunized Lewis rats were fused with cells of the rat S194/5 XX0.BU-1 myeloma cell line
Specificity	Rat anti Mouse CD45R antibody, clone RA3-6B2 recognizes murine CD45R, a form of the CD45 antigen expressed by B cells and lytically active subsets of NK cells and non-MHC restricted CTL's. Rat anti Mouse CD45R antibody, clone RA3-6B2 immunoprecipitates the high molecular weight form of CD45 (220 kDa). Rat anti Mouse CD45R antibody, clone RA3-6B2 is suitable for plp fixed paraffin embedded tissues (Whiteland <i>et al.</i> 1995).
Flow Cytometry	Use 5µl of the suggested working dilution to label 10 ⁶ cells in 100µl. Best practices suggest a 5 minutes centrifugation at 6,000g prior to sample application.
References	 Holmes, K.L. <i>et al.</i> (1986) Analysis of neoplasms induced by Cas-Br-M MuLV tumor extracts. J Immunol. 137 (2): 679-88. Spangrude, G.J. <i>et al.</i> (1988) Purification and characterization of mouse hematopoietic stem cells. <u>Science. 241: 58-62.</u> Spangrude, G.J. <i>et al.</i> (1988) Two rare populations of mouse Thy-1lo bone marrow cells repopulate the thymus. J Exp Med. 167 (5): 1671-83. Whiteland, J.L. <i>et al.</i> (1995) Immunohistochemical detection of T-cell subsets and other leukocytes in paraffin-embedded rat and mouse tissues with monoclonal antibodies. J <u>Histochem Cytochem. 43 (3): 313-20.</u> Hawke, S. <i>et al.</i> (1998) Long-term persistence of activated cytotoxic T lymphocytes after viral infection of the central nervous system. J Exp Med. 187: 1575-82. Rosmalen, J.G. <i>et al.</i> (2000) Subsets of macrophages and dendritic cells in nonobese diabetic mouse pancreatic inflammatory infiltrates: correlation with the development of diabetes. Lab Invest. 80 (1): 23-30. Stevenson, P.G. <i>et al.</i> (2002) Uncoupling of virus-induced inflammation and anti-viral

immunity in the brain parenchyma. J Gen Virol. 83: 1735-43.

 Perry, M.J. *et al.* (2000) Effects of high-dose estrogen on murine hematopoietic bone marrow precede those on osteogenesis. <u>Am J Physiol Endocrinol Metab. 279: E1159-65.</u>
 Straubinger, R.K. *et al.* (2003) Quantitative evaluation of inflammatory and immune responses in the early stages of chronic Helicobacter pylori infection. <u>Infect Immun. 71:</u> <u>2693-703.</u>

10. Shulga-Morskaya, S. *et al.* (2004) B cell-activating factor belonging to the TNF family acts through separate receptors to support B cell survival and T cell-independent antibody formation. J Immunol. 173 (4): 2331-41.

11. Gengozian, N. *et al.* (2005) Characterization of a monoclonal antibody identifying a CD45RA antigen on feline leukocytes. <u>Vet Immunol Immunopathol. 108: 253-64.</u>

12. Herrmann, I. et al. (2006) Streptococcus pneumoniae Infection aggravates

experimental autoimmune encephalomyelitis via Toll-like receptor 2. <u>Infect Immun. 74:</u> <u>4841-8.</u>

13. Itoh, T. *et al.* (2007) Ddb2 is a haploinsufficient tumor suppressor and controls spontaneous germ cell apoptosis. <u>Hum Mol Genet. 16: 1578-86.</u>

14. McGill, J. *et al.* (2009) Fetal exposure to ethanol has long-term effects on the severity of influenza virus infections. <u>J Immunol. 182: 7803-8</u>

15. Ankeny, D.P. *et al.* (2009) B cells produce pathogenic antibodies and impair recovery after spinal cord injury in mice. <u>J Clin Invest. 119: 2990-9.</u>

16. Lacroix-Lamande, S. *et al.* (2009) Neonate intestinal immune response to CpG oligodeoxynucleotide stimulation. <u>PLoS One. 4: e8291.</u>

17. Lundqvist, J. *et al.* (2010) Concomitant infection decreases the malaria burden but escalates relapsing fever borreliosis. <u>Infect Immun. 78 (5): 1924-30.</u>

 18. Giuriato, S. *et al.* (2010) Conditional TPM3-ALK and NPM-ALK transgenic mice develop reversible ALK-positive early B-cell lymphoma/leukemia. <u>Blood. 115: 4061-70.</u>
 19. Kleiter, I. *et al.* (2010) Smad7 in T cells drives T helper 1 responses in multiple sclerosis and experimental autoimmune encephalomyelitis. Brain. 133: 1067-81.

20. Nakaya, T. *et al.* (2010) Critical role of Pcid2 in B cell survival through the regulation of MAD2 expression. J Immunol. 185: 5180-7.

21. Soejima, M. *et al.* (2011) Role of innate immunity in a murine model of histidyl-transfer RNA synthetase (Jo-1)-mediated myositis. <u>Arthritis Rheum. 63: 479-87.</u>

22. Bertilaccio, M.T. *et al.* (2011) Lack of TIR8/SIGIRR triggers progression of chronic lymphocytic leukemia in mouse models. <u>Blood. 118: 660-9.</u>

23. Zhou, Z. *et al.* (2011) Autoreactive marginal zone B cells enter the follicles and interact with CD4+ T cells in lupus-prone mice. <u>BMC Immunol. 2011; 12:7.</u>

24. Fanning, S. *et al.* (2012) Bifidobacterial surface-exopolysaccharide facilitates commensal-host interaction through immune modulation and pathogen protection. <u>Proc</u> <u>Natl Acad Sci U S A. 109 (6): 2108-13.</u>

25. Ruf, M.T. *et al.* (2012) Chemotherapy-Associated Changes of Histopathological Features of Mycobacterium ulcerans Lesions in a Buruli Ulcer Mouse Model. <u>Antimicrob Agents Chemother. 56: 687-96.</u>

26. Carpenter, R.S. *et al.* (2015) Traumatic spinal cord injury in mice with human immune systems. <u>Exp Neurol. 271: 432-44.</u>

27. Lastrucci, C. *et al.* (2015) Molecular and cellular profiles of the resolution phase in a damage-associated molecular pattern (DAMP)-mediated peritonitis model and revelation of leukocyte persistence in peritoneal tissues. <u>FASEB J. 29 (5): 1914-29.</u>

	ogical study of the multifocal ne encephalomyelitis.			
	29. Thiele Née Schrewe, L. <i>et al.</i> (2020) Functional relevance abcg2 on teriflunomide therapy in an animal model of multiple Neuroinflammation. 17 (1): 9.			
	30. Allen, A.C. <i>et al.</i> (2021) Parallel <i>in vivo.</i> experimental evolustress resistance was key for the emergence of persistent tube <u>Microbiol. 6 (8): 1082-93.</u>			
	31. Chanut, F.J.A. <i>et al.</i> (2021) Conditioning Regimens in Long-Term Pre-Clinical St to Support Development of Ex Vivo Gene Therapy: Review of Nonproliferative and Proliferative Changes. <u>Hum Gene Ther. 32 (1-2): 66-76.</u>			
	 Jaensch, S.M. <i>et al.</i> (2022) Clinicopathologic and immunop with presumptive large granular lymphocyte leukaemia. <u>Aust V</u> Roca, C.P. <i>et al.</i> (2023) A cross entropy test allows quantit of t-SNE and UMAP representations <u>Cell Reports Methods</u>. 3 Kohlmeyer, J.L. <i>et al.</i> (2023) CDK4/6-MEK Inhibition in MP Infiltration, Sensitization to PD-L1 Blockade, and Tumor Regret (<u>17</u>): <u>3484-97</u>. 	(et J. 100 (11): 527-32. ative statistical comparison (1): 100390. NSTs Causes Plasma Cell		
Storage	Store at +4°C. DO NOT FREEZE. This product should be stored undiluted.			
Guarantee	12 months from date of despatch			
Acknowledgements	This product is covered by U.S. Patent No. 10,150,841 and rel counterparts	ated U.S. and foreign		
Health And Safety Information	Material Safety Datasheet documentation #20471 available at: https://www.bio-rad-antibodies.com/SDS/MCA1258SBUV740 20471			
Regulatory	For research purposes only			

Related Products

Recommended Useful Reagents

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

North & South	Tel: +1 800 265 7376 Wo	orldwide	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.cor	m	Email: antibody_sales_uk@bio-rad	d.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 'M417321:230314'

Printed on 16 May 2024

© 2024 Bio-Rad Laboratories Inc | Legal | Imprint