

## Datasheet: MCA1258SBV440 BATCH NUMBER 100004002

Description:	escription: RAT ANTI MOUSE CD45R:StarBright Violet 440			
Specificity:	CD45R			
Other names:	B220, LY-5			
Format:	StarBright Violet 440			
Product Type:	Monoclonal Antibody			
Clone:	RA3-6B2			
lsotype:	lgG2a			
Quantity:	100 TESTS/0.5ml			

## **Product Details**

Applications	This product has been reported to work in the following applications. This information 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-</u> rad-antibodies.com/protocols.					
		Yes No	Not Determined	Suggested Dilution		
	Flow Cytometry	•		Neat		
	Where this product has not been tested for use in a particular technique this does					
	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	Reacts with: Human, (	Cat				
Reactivity	<b>N.B.</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 Violet 440 - liquid					
Max Ex/Em	Fluorophore	Excitation Max (	m) Emission Max (nm)			
	StarBright Violet 440	385	438			
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 (NaN <sub>3</sub> ) 1% Bovine Serum Albumin 0.1% Pluronic F68 0.1% PEG 3350	
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- myeloma cell line	1
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 5ul of the suggested working dilution to label 10 <sup>6</sup> cells in 100ul. Best practices suggest a 5 minutes centrifugation at 6,000g prior to sample application.	
References	<ol> <li>Coffman, R.L. (1982) Surface antigen expression and immunoglobulin gene rearrangement during mouse pre-B cell development. <u>Immunol Rev. 69: 5-23.</u></li> <li>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. <u>Lab Invest. 80 (1): 23-30.</u></li> <li>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. <u>J Histochem Cytochem. 43 (3): 313-20.</u></li> <li>Spangrude, G.J. <i>et al.</i> (1988) Purification and characterization of mouse hematopoietic stem cells. <u>Science. 241: 58-62.</u></li> <li>Spangrude, G.J. <i>et al.</i> (1988) Two rare populations of mouse Thy-1lo bone marrow cells repopulate the thymus. <u>J Exp Med. 167 (5): 1671-83.</u></li> <li>Holmes, K.L. <i>et al.</i> (1986) Analysis of neoplasms induced by Cas-Br-M MuLV tumor extracts. <u>J Immunol. 137 (2): 679-88.</u></li> <li>Ankeny, D.P. <i>et al.</i> (2009) B cells produce pathogenic antibodies and impair recovery after spinal cord injury in mice. <u>J Clin Invest. 119: 2990-9.</u></li> </ol>	

	<ol> <li>Lundqvist, J. <i>et al.</i> (2010) Concomitant infection decreases the malaria burden but escalates relapsing fever borreliosis. Infect Immun. 78 (5): 1924-30.</li> <li>Herrmann, I. <i>et al.</i> (2006) Streptococcus pneumoniae Infection aggravates experimental autoimmune encephalomyelitis via Toll-like receptor 2. Infect Immun. 74: 4841-8.</li> <li>Kleiter, I. <i>et al.</i> (2010) Smad7 in T cells drives T helper 1 responses in multiple sclerosis and experimental autoimmune encephalomyelitis. Brain. 133: 1067-81.</li> <li>Lacroix-Lamande, S. <i>et al.</i> (2009) Neonate intestinal immune response to CpG oligodeoxynucleotide stimulation. PLoS One. 4: e8291.</li> <li>Bertilaccio, M.T. <i>et al.</i> (2011) Lack of TIR8/SIGIRR triggers progression of chronic lymphocytic leukemia in mouse models. Blood. 118: 660-9.</li> <li>Gengozian, N. <i>et al.</i> (2005) Characterization of a monoclonal antibody identifying a CD45RA antigen on feline leukocytes. Vet Immunol Immunopathol. 108: 253-64.</li> <li>Giuriato, S. <i>et al.</i> (2010) Conditional TPM3-ALK and NPM-ALK transgenic mice develop reversible ALK-positive early B-cell lymphoma/leukemia. Blood. 115: 4061-70.</li> <li>Hawke, S. <i>et al.</i> (1998) Long-term persistence of activated cytotoxic T lymphocytes</li> </ol>
	<ul> <li>after viral infection of the central nervous system. J Exp Med. 187: 1575-82.</li> <li>16. Nakaya, T. <i>et al.</i> (2010) Critical role of Pcid2 in B cell survival through the regulation of MAD2 expression. J Immunol. 185: 5180-7.</li> <li>17. Perry, M.J. <i>et al.</i> (2000) Effects of high-dose estrogen on murine hematopoietic bone marrow precede those on osteogenesis. Am J Physiol Endocrinol Metab. 279: E1159-65.</li> <li>18. Gibson-Corley, K.N. <i>et al.</i> (2016) A method for histopathological study of the multifocal</li> </ul>
	<ul> <li>nature of spinal cord lesions in murine experimental autoimmune encephalomyelitis.</li> <li><u>PeerJ. 4: e1600.</u></li> <li>19. Soejima, M. <i>et al.</i> (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></li> <li>20. Stevenson, P.G. <i>et al.</i> (2002) Uncoupling of virus-induced inflammation and anti-viral immunity in the brain parenchyma. <u>J Gen Virol. 83: 1735-43.</u></li> </ul>
	<ul> <li>21. Fanning, S. <i>et al.</i> (2012) Bifidobacterial surface-exopolysaccharide facilitates commensal-host interaction through immune modulation and pathogen protection. Proc Natl Acad Sci U S A. 109 (6): 2108-13.</li> <li>22. Ruf, M.T. <i>et al.</i> (2012) Chemotherapy-Associated Changes of Histopathological Features of Mycobacterium ulcerans Lesions in a Buruli Ulcer Mouse Model. Antimicrob Agents Chemother. 56: 687-96.</li> </ul>
	<ul> <li>23. Carpenter, R.S. <i>et al.</i> (2015) Traumatic spinal cord injury in mice with human immune systems. <u>Exp Neurol. 271: 432-44.</u></li> <li>24. Lastrucci, C. <i>et al.</i> (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></li> </ul>
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 related U.S. and foreign counterparts
Health And Safety	Material Safety Datasheet documentation #20438 available at:

Informati	on <u>https://</u> 20438						
Regulato	<b>ry</b> For res	earch purpose					
Relate	d Products						
Recomm	Recommended Useful Reagents						
	EROBLOCK FcR (BUF EROBLOCK FcR (BUF						
North & South America	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: antibody_sales_us@l	Worldwide	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio	Europe -rad.com	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com		
To find a b	atch/lot specific datash	eet for this produ	uct, please use our online s 'M374293:201028'	search tool at: I	pio-rad-antibodies.com/datasheets		
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