

# Datasheet: MCA1258SBY720 BATCH NUMBER 100007307

Description:	RAT ANTI MOUSE CD45R:StarBright Yellow 720		
Specificity:	CD45R		
Other names:	B220, LY-5		
Format:	StarBright Yellow 720		
Product Type:	Monoclonal Antibody		
Clone:	RA3-6B2		
Isotype:	lgG2a		
Quantity:	100 TESTS/0.5ml		

## **Product Details**

Applications	tions This product has been reported to work in the following applications. This informat derived from testing within our laboratories, peer-reviewed publications or persona communications from the originators. Please refer to references indicated for furth 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 tes			or use in a particular tech	nnique 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	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 Yellow 720 - liquid			
Max Ex/Em	Fluorophore	Excitation Max (n	m) Emission Max (nm)	
	StarBright Yellow 720	548	719	
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 0.05% Tween 20	
Immunogen	Murine leukemia-induced pre-B tumor cells (RAW112)	
External Database Links	UniProt: <u>P06800</u> <u>Related reagents</u> Entrez Gene: <u>19264</u> Ptprc <u>Related reagents</u>	
Synonyms	Ly-5	
Fusion Partners	Spleen cells from immunized Lewis rats were fused with cells myeloma cell line	of the rat S194/5 XX0.BU-1
Specificity	Rat anti Mouse CD45R antibody, clone RA3-6B2 recognize the CD45 antigen expressed by B cells and lytically active sub non-MHC restricted CTL's. Rat anti Mouse CD45R antibody, c immunoprecipitates the high molecular weight form of CD45 (2 Rat anti Mouse CD45R antibody, clone RA3-6B2 is suitable for embedded tissues (Whiteland <i>et al.</i> 1995).	osets of NK cells and clone RA3-6B2 220 kDa).
Flow Cytometry	Use 5µl of the suggested working dilution to label 10 <sup>6</sup> cells in suggest a 5 minutes centrifugation at 6,000g prior to sample a	
References	<ol> <li>Holmes, K.L. <i>et al.</i> (1986) Analysis of neoplasms induced be extracts. <u>J Immunol. 137 (2): 679-88.</u></li> <li>Spangrude, G.J. <i>et al.</i> (1988) Purification and characterizate stem cells. <u>Science. 241: 58-62.</u></li> <li>Spangrude, G.J. <i>et al.</i> (1988) Two rare populations of mouse cells repopulate the thymus. <u>J Exp Med. 167 (5): 1671-83.</u></li> <li>Whiteland, J.L. <i>et al.</i> (1995) Immunohistochemical detection leukocytes in paraffin-embedded rat and mouse tissues with m <u>Histochem Cytochem. 43 (3): 313-20.</u></li> <li>Hawke, S. <i>et al.</i> (1998) Long-term persistence of activated after viral infection of the central nervous system. <u>J Exp Med.</u></li> <li>Rosmalen, J.G. <i>et al.</i> (2000) Subsets of macrophages and diabetic mouse pancreatic inflammatory infiltrates: correlation diabetes. <u>Lab Invest. 80 (1): 23-30.</u></li> <li>Stevenson, P.G. <i>et al.</i> (2002) Uncoupling of virus-induced in the state of the central nerver structure of the central nerver</li></ol>	ion of mouse hematopoietic se Thy-1lo bone marrow n of T-cell subsets and other nonoclonal antibodies. J cytotoxic T lymphocytes <u>187: 1575-82.</u> dendritic cells in nonobese with the development of

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>

	<ul> <li>28. Gibson-Corley, K.N. <i>et al.</i> (2016) A method for histopathological study of the multifocal nature of spinal cord lesions in murine experimental autoimmune encephalomyelitis.</li> <li><u>PeerJ. 4: e1600.</u></li> <li>29. Thiele, L.S.N. <i>et al.</i> (2020) Functional relevance of the multi-drug transporter abcg2 or teriflunomide therapy in an animal model of multiple sclerosis. <u>J Neuroinflammation. 17</u> (1): 9.</li> <li>30. Allen, A.C. <i>et al.</i> (2021) Parallel <i>in vivo.</i> experimental evolution reveals that increased stress resistance was key for the emergence of persistent tuberculosis bacilli. <u>Nat</u> <u>Microbiol. 6 (8): 1082-93.</u></li> <li>31. Jaensch, S.M. <i>et al.</i> (2022) Clinicopathologic and immunophenotypic features in dogs with presumptive large granular lymphocyte leukaemia. <u>Aust Vet J. 100 (11): 527-32.</u></li> <li>32. Roca, C.P. <i>et al.</i> (2023) A cross entropy test allows quantitative statistical comparison of t-SNE and UMAP representations <u>Cell Reports Methods. 3 (1): 100390.</u></li> </ul>	n
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 Information	Material Safety Datasheet documentation #20471 available at: https://www.bio-rad-antibodies.com/SDS/MCA1258SBY720 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	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-ra	id.com	Email: antibody_sales_uk@bio-ra	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 'M416107:230130'

#### Printed on 04 Apr 2024

© 2024 Bio-Rad Laboratories Inc | Legal | Imprint