

Datasheet: MCA54PE BATCH NUMBER 1807

Description:	MOUSE ANTI RAT CD43:RPE
Specificity:	CD43
Other names:	LEUKOSIALIN
Format:	RPE
Product Type:	Monoclonal Antibody
Clone:	W3/13
Isotype:	lgG1
Quantity:	100 TESTS

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-</u> rad-antibodies.com/protocols.				
		Yes	No	Not Determined	Suggested Dilution
	Flow Cytometry	•			Neat
	•	s use in such mmended th	procedu at the use	res. Suggested work er titrates the antibod	echnique this does not ing dilutions are given as dy for use in their own
Target Species	Rat				
Product Form	Purified IgG conjugate	d to R. Phyc	oerythrin	(RPE) - lyophilized	
Reconstitution	Reconstitute with 1 ml	distilled wat	er		
Max Ex/Em	Fluorophore	Excitation M	lax (nm)	Emission Max (nm)	
	RPE 488nm laser	496		578	
Preparation	Purified IgG prepared supernatant	by affinity ch	romatogr	aphy on Protein G fr	om tissue culture
Buffer Solution	Phosphate buffered sa	aline			
Preservative Stabilisers	0.09% Sodium Azide 1% Bovine Serum /	Albumin			

	5% Sucrose
Immunogen	Rat thymocyte membrane glycoproteins.
External Database Links	UniProt: <u>P13838 Related reagents</u> Entrez Gene: <u>24796 Spn Related reagents</u>
RRID	AB_321709
Fusion Partners	Spleen cells from immunised BALB/c mice were fused with cells of the mouse NS1 myeloma cell line.
Specificity	Mouse anti Rat CD43 antibody, clone W3/13 recognizes the rat CD43 cell surface antigen, also known as leukosialin, sialophorin or W3/13 antigen. CD43 is a 371 amino acid ~95 kDa heavily glycosylated single pass type 1 transmembrane glycoprotein (<u>Killeen et al. 1987</u>) expressed by all leucocytes with the exception of B lymphocytes. CD43, in mice acts as a T-cell counter-receptor for CD169 (Siglec-1) suggesting a role in cell-cell interactions (<u>van den Berg et al. 2001</u>)
	Mouse anti Rat CD43 antibody, clone W3/13 is routinely tested in flow cytometry on rat splenocytes.
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 ⁶ cells in 100ul.
References	 Brown, W.R.A. <i>et al.</i> (1981) Identification of a glycophorin-like molecule at the cell surface of rat thymocytes. <u>Nature. 289: 456-460.</u> Barclay, A. N. (1981) The localization of populations of lymphocytes defined by monoclonal antibodies in rat lymphoid tissues. <u>Immunology. 42: 593-600</u> Forbes, R. D. C. <i>et al.</i> (1983) Leukocyte subsets in first-set rat cardiac allograft rejection. A serial immunohistologic study using monoclonal antibodies <u>Transplantation.</u> <u>36: 681-686</u> Jung, S. <i>et al.</i> (1994) Therapeutic effect of transforming growth factor-beta 2 on actively induced EAN but not adoptive transfer EAN <u>Immunology. 83: 545-551.</u> Bataller, R. <i>et al.</i> (2003) Prolonged infusion of angiotensin II into normal rats induces stellate cell activation and proinflammatory events in liver. <u>Am J Physiol Gastrointest Liver Physiol. 285: G642-651</u> Rice, E.K. <i>et al.</i> (2003) Induction of MIF synthesis and secretion by tubular epithelial cells: a novel action of angiotensin II. <u>Kidney Int. 63 (4): 1265-75.</u> Schwab, J.M. <i>et al.</i> (2005) Spinal cord injury induces early and persistent lesional P2X4 receptor expression. <u>J Neuroimmunol. 163: 185-9.</u> Conrad, S. <i>et al.</i> (2008) FTY720 ameliorates experimental autoimmune neuritis by inhibition of lymphocyte and monocyte infiltration into peripheral nerves. <u>Exp Neurol. 210:</u>

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	10. Yamanaka, Y. <i>et al.</i> (2011) Immunohistochemical analysis of subcutaneous tissue reactions to methacrylate resin-based root canal sealers. <u>Int Endod J. 44: 669-75.</u>
	11. Dort, J. <i>et al.</i> (2012) Beneficial effects of cod protein on skeletal muscle repair
	following injury. Appl Physiol Nutr Metab. 37 (3): 489-98.
	12. Duchesne, E. <i>et al.</i> (2013) Mast cells can regulate skeletal muscle cell proliferation by
	multiple mechanisms. <u>Muscle Nerve. 48 (3): 403-14.</u>
	13. Xu, K. <i>et al.</i> (2016) Expression of aryl hydrocarbon receptor in rat brain lesions
	following traumatic brain injury. <u>Diagn Pathol. 11 (1): 72.</u>
	14. Dort, J. <i>et al.</i> (2016) Shrimp Protein Hydrolysate Modulates the Timing of
	Proinflammatory Macrophages in Bupivacaine-Injured Skeletal Muscles in Rats. <u>Biomed</u>
	Res Int. 2016: 5214561.
	15. Zhang, Z.M. <i>et al.</i> (2016) Lesional accumulation of CD8(+) cells in sciatic nerves of
	experimental autoimmune neuritis rats. <u>Neurol Sci. 37 (2): 199-203.</u>
	16. Ornellas, F.M. <i>et al.</i> (2019) Mesenchymal Stromal Cells Induce Podocyte Protection in
	the Puromycin Injury Model. <u>Sci Rep. 9 (1): 19604.</u>
	17. Grad, E. <i>et al.</i> (2019) Monocyte Modulation by Liposomal Alendronate Improves
	Cardiac Healing in a Rat Model of Myocardial Infarction Regenerative Engineering and
	Translational Medicine. 5 (3): 280-9.
	18. Kami, K. <i>et al.</i> (2019) Role of 72-kDa Heat Shock Protein in Heat-stimulated
	Regeneration of Injured Muscle in Rat. <u>J Histochem Cytochem. 67 (11): 791-9.</u>
	19. Cąkała-Jakimowicz, M. & Puzianowska-Kuznicka, M. (2022) Towards Understanding
	the Lymph Node Response to Skin Infection with Saprophytic Staphylococcus
	epidermidis <u>Biomedicines. 10 (5): 1021.</u>
	20. Merlini, A. <i>et al.</i> (2022) Distinct roles of the meningeal layers in CNS autoimmunity. <u>Nat Neurosci. 25 (7): 887-99.</u>
Storage	Prior to reconstitution store at +4°C. Following reconstitution store at +4°C.
	DO NOT FREEZE.
	This product should be stored undiluted. This product is photosensitive and should be
	protected from light. Should this product contain a precipitate we recommend
	microcentrifugation before use.
Guarantee	12 months from date of despatch
Health And Safety	Material Safety Datasheet documentation #20487 available at:
Information	https://www.bio-rad-antibodies.com/SDS/MCA54PE 20487
Regulatory	For research purposes only

Related Products

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL:RPE (MCA1209PE)

North & South America	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: antibody_sales_us@bio-r	Worldwide ad.com	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-ra	To ^{d.} mud a
batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M375585:210104'					S	

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