

Datasheet: MCA619PE

Description:	MOUSE ANTI RAT CD11b:RPE
Specificity:	CD11b
Other names:	INTEGRIN ALPHA M CHAIN, MAC-1
Format:	RPE
Product Type:	Monoclonal Antibody
Clone:	ED8
Isotype:	lgG1
Quantity:	100 TESTS

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-rad-antibodies.com/protocols</u> .				
		Yes No	Not Determined	Suggested Dilution	
	Flow Cytometry	-		Neat	
	Where this antibody has not been tested for use in a particular technique this does n necessarily exclude its use in such procedures. Suggested working dilutions are give a guide only. It is recommended that the user titrates the antibody for use in their ow system using appropriate negative/positive controls.				
Target Species	Rat				
Product Form	Purified IgG conjugated to R. Phycoerythrin (RPE) - lyophilized				
Reconstitution	Reconstitute with 1 ml distilled water				
Max Ex/Em	Fluorophore	Excitation Max (r	m) Emission Max (nm)		
	RPE 488nm laser	496	578		
Preparation	Purified IgG prepared by ion exchange chromatography from tissue culture supernatant				
Buffer Solution	Phosphate buffered sa	line			
Preservative	0.09% Sodium Azide				
Stabilisers	1% Bovine Serum Albumin				
	5% Sucrose				

Immunogen	Rat spleen cell homogenate with Freund's complete adjuvant.
RRID	AB_321305
Fusion Partners	Spleen cells from immunised BAL/B/c mice were fused with cells of the Sp2/0 Ag-14 myeloma cell line.
Specificity	Mouse anti Rat CD11b antibody, clone ED8 recognizes a membrane antigen on rat macrophages, monocytes, dendritic cells and granulocytes. It also recognizes small ramified microglia in the central nervous system. No other cell types are positive for ED8. The recognized antigen is a heterodimer consisting of ~160 and ~95 kDa, belonging to the family of adhesion molecules CD11b/CD18, also designated as Mac-1 antigen or CR3. Mouse anti Rat CD11b antibody, clones ED7 (<u>MCA618R</u>) and ED8 may recognize closely related epitopes on the same molecule. Both clones ED7 and ED8 induce homotypic aggregation of granulocytes (<u>Drasković-Pavlović <i>et al.</i> 1999</u>).
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 ⁶ cells in 100ul.
References	 Damoiseaux, J.G. <i>et al.</i> (1989) Heterogeneity of macrophages in the rat evidenced by variability in determinants: two new anti-rat macrophage antibodies against a heterodimer of 160 and 95 kd (CD11/CD18). <u>J Leukoc Biol. 46 (6): 556-64.</u> de Groot, C.J. <i>et al.</i> (1988) Discrimination between different types of neuroglial cells in rat central nervous system using combined immuno- and enzyme-histochemical methods. <u>Immunobiology. 178 (3): 177-90.</u> Dijkstra, C.D. & Damoiseaux, J.G. (1993) Macrophage heterogeneity established by immunocytochemistry. <u>Prog Histochem Cytochem. 27 (2): 1-65.</u> Huitinga, I. <i>et al.</i> (1993) Treatment with anti-CR3 antibodies ED7 and ED8 suppresses experimental allergic encephalomyelitis in Lewis rats. <u>Eur J Immunol. 23 (3): 709-15.</u> Zilka, N. <i>et al.</i> (2009) Human misfolded truncated tau protein promotes activation of microglia and leukocyte infiltration in the transgenic rat model of tauopathy. J <u>Neuroimmunol. 209 (1-2): 16-25.</u> Drasković-Pavlović, B. <i>et al.</i> (1999) Differential effects of anti-rat CD11b monoclonal antibodies on granulocyte adhesiveness. <u>Immunology. 96: 83-9.</u> Dong, H. <i>et al.</i> (2014) Lithium ameliorates lipopolysaccharide-induced microglial activation of toll-like receptor 4 expression by activating the PI3K/Akt/FoxO1 pathway. J <u>Neuroinflammation. 11: 140.</u> Nacka-Aleksić M <i>et al.</i> (2015) Sexual dimorphism in the aged rat CD4+ T lymphocyte-mediated immune response elicited by inoculation with spinal cord homogenate. <u>Mech Ageing Dev. 152: 15-31.</u> Stojić-Vukanić Z <i>et al.</i> (2016) Estradiol enhances capacity of TLR-matured splenic dendritic cells to polarize CD4+ lymphocytes into IL-17/GM-CSF-producing cells <i>in vitro.</i> <u>Int Immunopharmacol. 40: 244-53.</u> Pilpović, I. <i>et al.</i> (2020) Propranolol diminished severity of rat EAE by enhancing immunoregulatory/protective properties of spinal cord microglia. <u>Neurobiol Dis. 134</u>; 104665. <!--</td-->

	 Nacka-Aleksić, M. <i>et al.</i> (2020) Sex as a confounding facto rat lymph node t cell compartment. <u>Exp Gerontol. 142: 111140.</u> Djuretić, J. <i>et al.</i> (2021) Infrared radiation from cage beddir inflammatory and autoimmune responses in collagen-induced a 	ng moderates rat
	2882. 14. Dilinguiá I. et el. (2010) Nevedranalina madulatas CD4+ T.	cell principal in set
	14. Pilipović, I. <i>et al.</i> (2019) Noradrenaline modulates CD4+ T experimental autoimmune encephalomyelitis: a role for the α_1 -a Res. 67 (2-3): 223-40.	
	 15. Anderson, L.E. <i>et al.</i> (2021) Injection of Micronized Human Membrane Results in Increased Early Supraspinatus Muscle R Model of Rotator Cuff Tear. <u>Ann Biomed Eng. 49 (12): 3698-71</u> 	Regeneration in a Chronic
Storage	Prior to reconstitution store at +4°C. Following reconstitution st	tore at +4ºC.
	DO NOT FREEZE.	
	This product should be stored undiluted. This product is photos protected from light. Should this product contain a precipitate w microcentrifugation before use.	
Guarantee	12 months from date of despatch	
Health And Safety Information	Material Safety Datasheet documentation #20487 available at: https://www.bio-rad-antibodies.com/SDS/MCA619PE 20487	
Regulatory	For research purposes only	

Related Products

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL:RPE (MCA1209PE)

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	d.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 'M419513:230616'

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