

Datasheet: MCA1230PE

Description:	RAT ANTI MOUSE CD49d:RPE	
Specificity:	CD49d	
Other names:	INTEGRIN ALPHA 4 CHAIN, VLA-4	
Format:	RPE	
Product Type:	Monoclonal Antibody	
Clone:	PS/2	
Isotype:	lgG2b	
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 www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	-			Neat - 1/10

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	Reacts with: Human	n		
Reactivity	N.B. Antibody react	tivity and working condit	ons may vary between species. Cro	SS
	reactivity is derived	from testing within our I	aboratories, peer-reviewed publicati	ons
	personal communic	cations from the originate	ors. Please refer to references indica	ated
	further information.			
Product Form	Purified IgG conjug	ated to R. Phycoerythrin	(RPE) - lyophilized	
Reconstitution	Reconstitute with 1	ml distilled water		
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)	
	RPE 488nm laser	496	578	
Preparation	Purified IgG prepare	ed by affinity chromatog	raphy on Protein G from tissue cultu	ıre
•	supernatant	, , ,	1 7	

Buffer Solution	Phosphate buffered saline	
Preservative Stabilisers	0.09% sodium azide (NaN ₃) 1% bovine serum albumin 5% sucrose	
Immunogen	P815 DBA/2 murine mastocytoma cells.	
External Database Links	UniProt: Q00651 Related reagents Entrez Gene: 16401 Itga4 Related reagents	
RRID		
	AB_321457	
Fusion Partners	Spleen cells from immunized Fisher rats were fused with SP2/0	0 mouse myeloma cells
Specificity	Rat anti Mouse CD49d monoclonal antibody, clone PS/2 reintegrin (CD49d), a ~150 kDa single pass type I membrane gly associate with either beta 1 integrin (CD29) or beta 7 integrin to CD49d/CD29 (VLA-4) and alpha4/beta7 (LPAM-1) respectively CD49d is expressed on most lymphocytes, granulocytes, monoprimary ligands for CD49d are CD106 (VCAM-1), fibronectin are et al. 1994).	rcoprotein that can o form heterodimers r (<u>Holzmann <i>et al.</i> 1989</u>). ocytes and thymocytes. The
	Clone PS/2 has also been reported to block the binding of CD4 et al. 1994).	49d to its ligands (<u>Andrew</u>
Flow Cytometry	Use 10µl of the suggested working dilution to label 10 ⁶ cells in The Fc region of monoclonal antibodies may bind to cells expreseptors. This may be reduced by using SeroBlock FcR (BUF	essing low affinity Fc
References	 Miyake, K. et al. (1991) Evidence for a role of the integrin VI hemopoiesis. J Exp Med. 173 (3): 599-607. Miyake, K. et al. (1991) A VCAM-like adhesion molecule on stromal cells mediates binding of lymphocyte precursors in cult 557-65. Andrew, D.P. et al. (1994) Distinct but overlapping epitopes a 7-mediated adhesion to vascular cell adhesion molecule-1, mu fibronectin, and lymphocyte aggregation. J Immunol. 153 (9): 3 Tchilian, E.Z. et al. (1997) Anti-alpha 4 integrin antibody induthymocytes and staphylococcal enterotoxin B-activated lymphoge: 321-7. Enghofer, M. et al. (1998) Lymphocyte transfer in streptozoto adhesion of donor cells to islet endothelium. Am J Physiol. 274 (6. Liu, Z.J. et al. (1999) A novel role for H-Ras in the regulation 	murine bone marrow ture. J Cell Biol. 114 (3): are involved in alpha 4 beta cosal addressin-1, 847-61. uces apoptosis in murine node T cells. Immunology. ocin-induced diabetes: E: E928-35.

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Storage

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 Information	Material Safety Datasheet documentation #20487 available at: https://www.bio-rad-antibodies.com/SDS/MCA1230PE 20487
Regulatory	For research purposes only

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batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M419613:230616'

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