

Datasheet: MCA2588PE

Description:	MOUSE ANTI HUMAN CD61:RPE
Specificity:	CD61
Other names:	INTEGRIN BETA 3 CHAIN
Format:	RPE
Product Type:	Monoclonal Antibody
Clone:	Y2/51
Isotype:	IgG1
Quantity:	100 TESTS/1ml

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

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	Human		
Product Form	Purified IgG conjugated to R. Phycoerythrin (RPE) - lyophilized		
Reconstitution	Reconstitute with 1.0ml distilled water		
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	RPE 488nm laser	496	578
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant		
Buffer Solution	Phosphate buffered saline		
Preservative	0.09% Sodium Azide (NaN ₃)		
Stabilisers	1% Bovine Serum Albumin		
	5% Sucrose		
Immunogen	PHA stimulated peripheral blood cells.		
External Database Links	UniProt:		
	P05106	Related reagents	

Entrez Gene:

[3690](#) ITGB3 [Related reagents](#)

Synonyms	GP3A
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Fusion Partners	Spleen cells from immunised Balb/c mice were fused with cells of the NS1 myeloma cell line.
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Specificity	<p>Mouse anti Human CD61 antibody, clone Y2/51 recognizes CD61, a ~105 kDa glycoprotein, also known as integrin beta 3 chain. This molecule associates with either the alpha IIb integrin (CD41) or the alpha V integrin (CD51) at the cell surface. CD61 is expressed on platelets and megakaryocytes in association with CD41, and on endothelial cells, monocytes, platelets and osteoclasts in association with CD51.</p> <p>CD61 is a receptor for fibrinogen, fibronectin, vWF, vitronectin and thrombospondin.</p>
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Flow Cytometry	Use 10ul of the suggested working dilution to label 1x10 ⁶ cells in 100ul.
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References	<ol style="list-style-type: none">1. Phillips, D.R. <i>et al.</i> (1991) GPIIb-IIIa: the responsive integrin. Cell. 65 (3): 359-62.2. Hynes, R.O. (1992) Integrins: versatility, modulation, and signaling in cell adhesion. Cell. 69 (1): 11-25.3. Michelson, A. D. <i>et al.</i> (1995) A panel of platelet mAb for the study of haemostasis and thrombosis in baboons. Leucocyte Typing V. Oxford University Press p 1230-1.4. Gatter, K.C. <i>et al.</i> (1988) The immunohistological detection of platelets, megakaryocytes and thrombi in routinely processed specimens. Histopathology. 13 (3): 257-67.5. Kamat, V. <i>et al.</i> (2015) Microfluidic assessment of functional culture-derived platelets in human thrombi under flow. Exp Hematol. 43 (10): 891-900.e4.6. Ogino, T. <i>et al.</i> (2014) Erythroid and megakaryocytic differentiation of K562 erythroleukemic cells by monochloramine. Free Radic Res. 48 (3): 292-302.7. Tehrani, S. <i>et al.</i> (2010) Atorvastatin has antithrombotic effects in patients with type 1 diabetes and dyslipidemia. Thromb Res. 126 (3): e225-31.8. Dircks, B.H. <i>et al.</i> (2012) Platelet-neutrophil aggregate formation in blood samples from dogs with systemic inflammatory disorders. Am J Vet Res. 73 (7): 939-45.9. Comazzi, S. <i>et al.</i> (2010) Acute megakaryoblastic leukemia in dogs: a report of three cases and review of the literature. J Am Anim Hosp Assoc. 46 (5): 327-35.10. Jackson, J.W. <i>et al.</i> (2016) Novel Antiplatelet Activity of Minocycline Involves Inhibition of MLK3-p38 Mitogen Activated Protein Kinase Axis. PLoS One. 11 (6): e0157115.11. Chen, C.P. <i>et al.</i> (2018) Oxidative stress reduces trophoblast FOXO1 and integrin β3 expression that inhibits cell motility. Free Radic Biol Med. Jun 07 [Epub ahead of print].
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Storage	<p>Store at +4°C. DO NOT FREEZE.</p> <p>This product should be stored undiluted. Storage in frost-free freezers is not recommended. This product is photosensitive and should be protected from light.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.</p>
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Shelf Life	12 months from date of reconstitution.
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Health And Safety Information	Material Safety Datasheet documentation #10075 available at: 10075: https://www.bio-rad-antibodies.com/uploads/MSDS/10075.pdf
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Regulatory	For research purposes only
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Related Products

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL:RPE \(MCA928PE\)](#)

Recommended Useful Reagents

[HUMAN SEROBLOCK \(BUF070A\)](#)

[HUMAN SEROBLOCK \(BUF070B\)](#)

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