

Datasheet: MCA2588

Description:	MOUSE ANTI HUMAN CD61
Specificity:	CD61
Other names:	INTEGRIN BETA 3 CHAIN
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	Y2/51
Isotype:	IgG1
Quantity:	0.2 mg

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	▪			1/100 - 1/200
Immunohistology - Frozen	▪			
Immunohistology - Paraffin (1)	▪			
ELISA			▪	
Immunoprecipitation			▪	
Western Blotting	▪			
Immunofluorescence	▪			

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.

(1) This product requires protein digestion pre-treatment of paraffin sections e.g. trypsin prior to staining.

Target Species	Human
Product Form	Purified IgG - liquid
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 ₃)
Carrier Free	Yes
Approx. Protein Concentrations	IgG concentration 1.0mg/ml
Immunogen	PHA stimulated peripheral blood cells.
External Database Links	<p>UniProt: P05106 Related reagents</p> <p>Entrez Gene: 3690 ITGB3 Related reagents</p>
Synonyms	GP3A
RRID	AB_1055678
Fusion Partners	Spleen cells from immunised Balb/c mice were fused with cells of the NS1 myeloma cell line.
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>
Flow Cytometry	Use 10ul of the suggested working dilution to label 1x10 ⁶ cells in 100ul.
References	<ol style="list-style-type: none"> Phillips, D.R. <i>et al.</i> (1991) GPIIb-IIIa: the responsive integrin. Cell. 65 (3): 359-62. 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. 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. 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. 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. 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. Ogino, T. <i>et al.</i> (2014) Erythroid and megakaryocytic differentiation of K562 erythroleukemic cells by monochloramine. Free Radic Res. 48 (3): 292-302. 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.

9. Chen, C.P. *et al.* (2018) Oxidative stress reduces trophoblast FOXO1 and integrin β 3 expression that inhibits cell motility. [Free Radic Biol Med. 124: 189-198.](#)

Further Reading 1. Hynes, R.O. (1992) Integrins: versatility, modulation, and signaling in cell adhesion. [Cell. 69 \(1\): 11-25.](#)

Storage This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

Guarantee 12 months from date of despatch

Health And Safety Information Material Safety Datasheet documentation #10040 available at: <https://www.bio-rad-antibodies.com/SDS/MCA2588>
10040

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR77...) [HRP](#)
Rabbit Anti Mouse IgG (STAR12...) [RPE](#)
Goat Anti Mouse IgG IgA IgM (STAR87...) [Alk. Phos.](#), [HRP](#)
Goat Anti Mouse IgG (STAR76...) [RPE](#)
Goat Anti Mouse IgG (Fc) (STAR120...) [FITC](#), [HRP](#)
Rabbit Anti Mouse IgG (STAR13...) [HRP](#)
Rabbit Anti Mouse IgG (STAR9...) [FITC](#)
Goat Anti Mouse IgG (H/L) (STAR117...) [Alk. Phos.](#), [DyLight®488](#), [DyLight®550](#),
[DyLight®650](#), [DyLight®680](#), [DyLight®800](#),
[FITC](#), [HRP](#)
Goat Anti Mouse IgG (STAR70...) [FITC](#)

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://www.bio-rad-antibodies.com/datasheets)

'M383853:210513'

Printed on 18 Jan 2024