Datasheet: MCA2588GA

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:	0.1 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			▪	

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	**UniProt:** P05106 Related reagents **Entrez Gene:** 3690 ITGB3 Related reagents
Synonyms	GP3A
Fusion Partners	Spleen cells from immunised Balb/c mice were fused with cells of the NS1 myeloma cell line.
Specificity	**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. CD61 is a receptor for fibrinogen, fibronectin, vWF, vitronectin and thrombospondin.
Flow Cytometry	Use 10ul of the suggested working dilution to label 1x10^6 cells in 100ul.
References	1. Phillips, D.R. *et al.* (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. *et al*. (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. *et al.* (1988) The immunohistological detection of platelets, megakaryocytes and thrombi in routinely processed specimens. Histopathology. 13 (3): 257-67. 5. Kamat, V. *et al.* (2015) Microfluidic assessment of functional culture-derived platelets in human thrombi under flow. Exp Hematol. 43 (10): 891-900.e4. 6. Ogino, T. *et al.* (2014) Erythroid and megakaryocytic differentiation of K562 erythroleukemic cells by monochloramine. Free Radic Res. 48 (3): 292-302. 7. Tehrani, S. *et al.* (2010) Atorvastatin has antithrombotic effects in patients with type 1 diabetes and dyslipidemia. Thromb Res. 126 (3): e225-31. 8. Dircks, B.H. *et al.* (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. *et al.* (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. *et al.* (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. *et al.* (2018) Oxidative stress reduces trophoblast FOXO1 and integrin β3 expression that inhibits cell motility. Free Radic Biol Med. Jun 07 [Epub ahead of print].
Storage	Store at +4°C or at -20°C if preferred. Storage in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.
Shelf Life	18 months from date of despatch.
Health And Safety	Material Safety Datasheet documentation #10040 available at: 10040: https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf

Information	
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR76...)	RPE
Goat Anti Mouse IgG IgA IgM (STAR87...)	Alk. Phos., HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (STAR77...)	HRP
Rabbit Anti Mouse IgG (STAR12...)	RPE
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC, HRP
Rabbit Anti Mouse IgG (STAR8...)	DyLight®800
Goat Anti Mouse IgG (STAR70...)	FITC
Rabbit Anti Mouse IgG (STAR13...)	HRP
Human Anti Mouse IgG1 (HCA036...)	HRP
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos., DyLight®488, DyLight®549, DyLight®649, DyLight®680, DyLight®800, FITC, HRP

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL (MCA928)

North & South America Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: antibody_sales_us@bio-rad.com

Worldwide Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com

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