

Datasheet: MCA2588A647

Description:	MOUSE ANTI HUMAN CD61:Alexa Fluor® 647
Specificity:	CD61
Other names:	INTEGRIN BETA 3 CHAIN
Format:	ALEXA FLUOR® 647
Product Type:	Monoclonal Antibody
Clone:	Y2/51
Isotype:	IgG1
Quantity:	100 TESTS/1ml

Product Details

RRID AB_1055672

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 - 1:2

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 Alexa Fluor® 647 - liquid

Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	Alexa Fluor®647	650	665

Preparation Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant

Buffer Solution Phosphate buffered saline

Preservative 0.09% Sodium Azide (NaN₃)
Stabilisers 1% Bovine Serum Albumin

Approx. Protein Concentrations IgG concentration 0.05mg/ml

Immunogen PHA stimulated peripheral blood cells.

External Database Links **UniProt:**

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 or at -20°C if preferred.</p> <p>Storage in frost-free freezers is not recommended.</p> <p>This product should be stored undiluted. This product is photosensitive and should be protected from light. 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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Guarantee	18 months from date of despatch.
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Health And Safety Information Material Safety Datasheet documentation #10041 available at:
10041: <https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf>

Regulatory For research purposes only

Related Products

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL:Alexa Fluor® 647 \(MCA928A647\)](#)

Recommended Useful Reagents

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

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

North & South Tel: +1 800 265 7376

America 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

Europe

Tel: +49 (0) 89 8090 95 21

Fax: +49 (0) 89 8090 95 50

 Email: antibody_sales_de@bio-rad.com

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