

Datasheet: MCA2588

**BATCH NUMBER 158667**

<b>Description:</b>	MOUSE ANTI HUMAN CD61
<b>Specificity:</b>	CD61
<b>Other names:</b>	INTEGRIN BETA 3 CHAIN
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	Y2/51
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	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](http://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.**

<b>Target Species</b>	Human
<b>Product Form</b>	Purified IgG - liquid
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant

<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.09% Sodium Azide (NaN <sub>3</sub> )
<b>Carrier Free</b>	Yes
<b>Approx. Protein Concentrations</b>	IgG concentration 1.0mg/ml
<b>Immunogen</b>	PHA stimulated peripheral blood cells.
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P05106</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">3690</a> ITGB3    <a href="#">Related reagents</a></p>
<b>Synonyms</b>	GP3A
<b>RRID</b>	AB_1055678
<b>Fusion Partners</b>	Spleen cells from immunised Balb/c mice were fused with cells of the NS1 myeloma cell line.
<b>Specificity</b>	<p><b>Mouse anti Human CD61 antibody, clone Y2/51</b> 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>
<b>Flow Cytometry</b>	Use 10ul of the suggested working dilution to label 1x10 <sup>6</sup> cells in 100ul.
<b>References</b>	<ol style="list-style-type: none"> <li>Phillips, D.R. <i>et al.</i> (1991) GPIIb-IIIa: the responsive integrin. <a href="#">Cell. 65 (3): 359-62.</a></li> <li>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.</li> <li>Comazzi, S. <i>et al.</i> (2010) Acute megakaryoblastic leukemia in dogs: a report of three cases and review of the literature. <a href="#">J Am Anim Hosp Assoc. 46 (5): 327-35.</a></li> <li>Tehrani, S. <i>et al.</i> (2010) Atorvastatin has antithrombotic effects in patients with type 1 diabetes and dyslipidemia. <a href="#">Thromb Res. 126 (3): e225-31.</a></li> <li>Dircks, B.H. <i>et al.</i> (2012) Platelet-neutrophil aggregate formation in blood samples from dogs with systemic inflammatory disorders. <a href="#">Am J Vet Res. 73 (7): 939-45.</a></li> <li>Kamat, V. <i>et al.</i> (2015) Microfluidic assessment of functional culture-derived platelets in human thrombi under flow. <a href="#">Exp Hematol. 43 (10): 891-900.e4.</a></li> <li>Ogino, T. <i>et al.</i> (2014) Erythroid and megakaryocytic differentiation of K562 erythroleukemic cells by monochloramine. <a href="#">Free Radic Res. 48 (3): 292-302.</a></li> </ol>

8. 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.](#)
9. Chen, C.P. *et al.* (2018) Oxidative stress reduces trophoblast FOXO1 and integrin  $\beta$ 3 expression that inhibits cell motility. [Free Radic Biol Med. 124: 189-198.](#)

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

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**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.

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**Guarantee** 12 months from date of despatch

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

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## 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 \(MCA928\)](#)

<b>North &amp; South America</b>	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: <a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a>	<b>Worldwide</b>	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: <a href="mailto:antibody_sales_uk@bio-rad.com">antibody_sales_uk@bio-rad.com</a>	<b>Europe</b>	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a>
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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)

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