

## Datasheet: MCA2588T

<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>	25 µg

## Product Details

**RRID** AB\_1102243

### 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	▪			

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<sub>3</sub>)

**Carrier Free** Yes

**Approx. Protein** IgG concentration 1.0mg/ml

## Concentrations

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**Immunogen** PHA stimulated peripheral blood cells.

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## External Database Links

**UniProt:**

[P05106](#) [Related reagents](#)

**Entrez Gene:**

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

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**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** **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.

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**Flow Cytometry** Use 10ul of the suggested working dilution to label  $1 \times 10^6$  cells in 100ul.

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## 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  $\beta 3$  expression that inhibits cell motility. [Free Radic Biol Med. Jun 07 \[Epub ahead of print\].](#)
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## 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.

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<b>Guarantee</b>	18 months from date of despatch.
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10040 available at: 10040: <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf</a>
<b>Regulatory</b>	For research purposes only

## Related Products

### Recommended Secondary Antibodies

- Goat Anti Mouse IgG IgA IgM (STAR87...) [Alk. Phos.](#), [HRP](#)
- Goat Anti Mouse IgG (STAR77...) [HRP](#)
- Rabbit Anti Mouse IgG (STAR12...) [RPE](#)
- Rabbit Anti Mouse IgG (STAR8...) [DyLight®800](#)
- Rabbit Anti Mouse IgG (STAR13...) [HRP](#)
- Goat Anti Mouse IgG (STAR76...) [RPE](#)
- Goat Anti Mouse IgG (STAR70...) [FITC](#)
- Goat Anti Mouse IgG (Fc) (STAR120...) [FITC](#), [HRP](#)
- Rabbit Anti Mouse IgG (STAR9...) [FITC](#)
- Goat Anti Mouse IgG (H/L) (STAR117...) [Alk. Phos.](#), [DyLight®488](#), [DyLight®680](#),  
[DyLight®800](#), [FITC](#), [HRP](#)

### 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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