Datasheet: MCA2588A647T

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:	25 TESTS/0.25ml

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	▪			Neat - 1/10

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 Stabilisers

0.09% Sodium Azide (NaN_3)
1% Bovine Serum Albumin

Approx. Protein Concentrations

IgG concentration 0.05mg/ml

Immunogen	PHA stimulated peripheral blood cells.
External Database Links	**UniProt:** P05106 Related reagents **Entrez Gene:** 3690 ITGB3 Related reagents
Synonyms	GP3A
RRID	AB_1102241
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. 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. 3. 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. 4. Tehrani, S. *et al.* (2010) Atorvastatin has antithrombotic effects in patients with type 1 diabetes and dyslipidemia. Thromb Res. 126 (3): e225-31. 5. 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. 6. Kamat, V. *et al.* (2015) Microfluidic assessment of functional culture-derived platelets in human thrombi under flow. Exp Hematol. 43 (10): 891-900.e4. 7. Ogino, T. *et al.* (2014) Erythroid and megakaryocytic differentiation of K562 erythroleukemic cells by monochloramine. Free Radic Res. 48 (3): 292-302. 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 β3 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. This product is photosensitive and should be protected from light.
Guarantee	12 months from date of despatch
Acknowledgements	This product is provided under an intellectual property licence from Life Technologies Corporation. The transfer of this product is contingent on the buyer using the purchase product solely in research, excluding contract research or any fee for service research, and the buyer must not sell or otherwise transfer this product or its components for (a) diagnostic, therapeutic or prophylactic purposes; (b) testing, analysis or screening services, or information in return for compensation on a per-test basis; (c) manufacturing or quality assurance or quality control, or (d) resale, whether or not resold for use in research. For information on purchasing a license to this product for purposes other than as described above, contact Life Technologies Corporation, 5791 Van Allen Way, Carlsbad CA 92008 USA or outlicensing@thermofisher.com
Health And Safety Information	Material Safety Datasheet documentation #10041 available at: https://www.bio-rad-antibodies.com/SDS/MCA2588A647T 10041
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 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

Europe Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com

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

'M385546:210513'

Printed on 28 May 2025