

Datasheet: MCA2588A647

BATCH NUMBER 172187

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

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 A from tissue culture supernatant		
Buffer Solution	Phosphate buffered saline		
Preservative	0.09% Sodium Azide (NaN ₃)		
Stabilisers	1% Bovine Serum Albumin		
Approx. Protein	IgG concentration 0.05mg/ml		

Concentrations

Immunogen PHA stimulated peripheral blood cells.

External Database Links

UniProt:

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

Entrez Gene:

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

Synonyms GP3A

RRID AB_1055672

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 1×10^6 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 $\beta 3$ 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.](#)

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

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Health And Safety Information Material Safety Datasheet documentation #10041 available at: <https://www.bio-rad-antibodies.com/SDS/MCA2588A647>

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 \(BUF070B\)](#)

Product inquiries: www.bio-rad-antibodies.com/technical-support

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

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