

Datasheet: MCA1227A647

BATCH NUMBER 155045

Description:	MOUSE ANTI HUMAN CD42a:Alexa Fluor® 647
Specificity:	CD42a
Other names:	GPIX
Format:	ALEXA FLUOR® 647
Product Type:	Monoclonal Antibody
Clone:	GRP-P
Isotype:	lgG1
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 - 1/5

Where this antibody 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 antibody for use in their own system using appropriate negative/positive controls.

Target Species	Human
Species Cross Reactivity	Reacts with: Mink, Dog N.B. Antibody reactivity and working conditions may vary between s

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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 prepar	ed by ion exchange chro	omatography	
Buffer Solution	Phosphate buffered	d saline		

Preservative Stabilisers	0.09% Sodium Azide
Otabilisers	1% Bovine Serum Albumin
Approx. Protein Concentrations	IgG concentration 0.05 mg/ml
Immunogen	Human red blood cells and platelets.
External Database	Halbart.
Links	UniProt: P14770 Related reagents
	Entrez Gene:
	2815 GP9 Related reagents
RRID	AB_324853
Fusion Partners	Spleen cells from immunised BALB/c mice were fused with cells of the mouse NS1 myeloma cell line.
Specificity	Mouse anti Human CD42a antibody, clone GRP-P recognizes the platelet GPIX glycoprotein, a 23kDa surface marker expressed by platelets and megakaryocytes. Platelet GPIX is also known as CD42a.
	The CD42 complex is the major platelet receptor for von Willebrand factor.
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 ⁶ cells or 100ul whole blood
References	1. Sarma, J. <i>et al.</i> (2002) Increased platelet binding to circulating monocytes in acute coronary syndromes. Circulation. 105 (18): 2166-71.
	2. Bournazos, S. <i>et al.</i> (2008) Monocyte functional responsiveness after PSGL-1-mediated
	platelet adhesion is dependent on platelet activation status. <u>Arterioscler Thromb Vasc Biol.</u>
	28: 1491-8. 3. Aasted, B. <i>et al.</i> (2007) Reactivity of monoclonal antibodies to human CD antigens with
	cells from mink. Vet Immunol Immunopathol. 119: 27-37.
	4. Perdomo, J. <i>et al.</i> (2011) Quinine-induced thrombocytopenia: drug-dependent GPIb/IX
	antibodies inhibit megakaryocyte and proplatelet production in vitro. <u>Blood. 117: 5975-86.</u> 5. Harding, S.A. <i>et al.</i> (2004) Increased CD40 ligand and platelet-monocyte aggregates in
	patients with type 1 diabetes mellitus. <u>Atherosclerosis. 176: 321-5.</u>
	6. Harding, S.A. et al. (2007) Clopidogrel reduces platelet-leucocyte aggregation,
	monocyte activation and RANTES secretion in type 2 diabetes mellitus. Heart. 92: 1335-7.
	7. Eisbacher, M. <i>et al.</i> (2001) Inducible expression of the megakaryocyte-specific gene glycoprotein IX is mediated through an Ets binding site and involves upstream activation
	of extracellular signal-regulated kinase. <u>Cell Growth Differ. 12: 435-45.</u>
	8. Vettore, S. <i>et al.</i> (2008) Novel point mutation in a leucine-rich repeat of the GPIbalpha
	chain of the platelet von Willebrand factor receptor, GPIb/IX/V, resulting in an inherited dominant form of Bernard-Soulier syndrome affecting two unrelated families: the N41H
	torninant form of bernard-3odiler syndrome affecting two differenced families. the N4 111

variant. Haematologica. 93: 1743-7.

- 9. Fox, S.C. *et al.* (2004) Quantitation of platelet aggregation and microaggregate formation in whole blood by flow cytometry. <u>Platelets. 15: 85-93.</u>
- 10. Din, J.N. *et al.* (2010) Effect of moderate walnut consumption on lipid profile, arterial stiffness and platelet activation in humans. <u>Eur J Clin Nutr. 2011 Feb;65(2):234-9.</u>
- 11. Din, J.N. *et al.* (2008) Dietary intervention with oil rich fish reduces platelet-monocyte aggregation in man. Atherosclerosis. 197: 290-6.
- 12. Schuberth, H.J. *et al.* (2007) Reactivity of cross-reacting monoclonal antibodies with canine leukocytes, platelets and erythrocytes. Vet Immunol Immunopathol. 119: 47-55.
- 13. Tunströmer, K. *et al.* (2018) Quantification of Platelet Contractile Movements during Thrombus Formation. Thromb Haemost. 118 (9): 1600-11.

Storage

Store at +4°C or at -20°C if preferred.

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.

Guarantee	12 months from date of despatch
Acknowledgements	The Alexa Fluor® dye antibody conjugates in this product are sold under license from Molecular Probes, Inc. for research use only, except for use in combination with microarrays, and are covered by pending and issued patents.
Health And Safety Information	Material Safety Datasheet documentation #10041 available at: https://www.bio-rad-antibodies.com/SDS/MCA1227A647 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 Tel: +1 800 265 7376

America Fax: +1 919 878 3751

Worldwide

Tel: +44 (0)1865 852 700

Europe

Tel: +49 (0) 89 8090 95 21

Fax: +1 919 878 3751

Fax: +44 (0)1865 852 739

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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

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