

Datasheet: MCA1227PET

Description:	MOUSE ANTI HUMAN CD42a:RPE
Specificity:	CD42a
Other names:	GPIX
Format:	RPE
Product Type:	Monoclonal Antibody
Clone:	GRP-P
Isotype:	IgG1
Quantity:	25 TESTS

Product Details

RRID AB_1102028

Applications	<p>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.</p> <table border="1"> <thead> <tr> <th></th> <th>Yes</th> <th>No</th> <th>Not Determined</th> <th>Suggested Dilution</th> </tr> </thead> <tbody> <tr> <td>Flow Cytometry</td> <td>■</td> <td></td> <td></td> <td>Neat</td> </tr> </tbody> </table> <p>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.</p>					Yes	No	Not Determined	Suggested Dilution	Flow Cytometry	■			Neat
	Yes	No	Not Determined	Suggested Dilution										
Flow Cytometry	■			Neat										
Target Species	Human													
Species Cross Reactivity	Reacts with: Mink, Dog N.B. Antibody reactivity and working conditions may vary between species.													
Product Form	Purified IgG conjugated to R. Phycoerythrin (RPE) - liquid													
Max Ex/Em	<table border="1"> <thead> <tr> <th>Fluorophore</th> <th>Excitation Max (nm)</th> <th>Emission Max (nm)</th> </tr> </thead> <tbody> <tr> <td>RPE 488nm laser</td> <td>496</td> <td>578</td> </tr> </tbody> </table>	Fluorophore	Excitation Max (nm)	Emission Max (nm)	RPE 488nm laser	496	578							
Fluorophore	Excitation Max (nm)	Emission Max (nm)												
RPE 488nm laser	496	578												
Preparation	Purified IgG prepared by ion exchange chromatography													
Buffer Solution	Phosphate buffered saline													
Preservative Stabilisers	0.09% Sodium Azide 1% Bovine Serum Albumin 5% Sucrose													
Immunogen	Human red blood cells and platelets.													

**External Database
Links**

UniProt:

[P14770](#) [Related reagents](#)

Entrez Gene:

[2815](#) GP9 [Related reagents](#)

Fusion Partners	Spleen cells from immunised BALB/c mice were fused with cells of the mouse NS1 myeloma cell line.
------------------------	---

Specificity	<p>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.</p> <p>The CD42 complex is the major platelet receptor for von Willebrand factor.</p>
--------------------	---

Flow Cytometry	Use 10ul of the suggested working dilution to label 10 ⁶ cells or 100ul whole blood
-----------------------	--

References	<ol style="list-style-type: none">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. Arterioscler Thromb Vasc Biol. 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. Blood. 117: 5975-86.5. Harding, S.A. <i>et al.</i> (2004) Increased CD40 ligand and platelet-monocyte aggregates in patients with type 1 diabetes mellitus. Atherosclerosis. 176: 321-5.6. Harding, S.A. <i>et al.</i> (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. Cell Growth Differ. 12: 435-45.8. Vettore, S. <i>et al.</i> (2008) Novel point mutation in a leucine-rich repeat of the GPIIb/IIIa chain of the platelet von Willebrand factor receptor, GPIIb/IIIa, resulting in an inherited dominant form of Bernard-Soulier syndrome affecting two unrelated families: the N41H variant. Haematologica. 93: 1743-7.9. Fox, S.C. <i>et al.</i> (2004) Quantitation of platelet aggregation and microaggregate formation in whole blood by flow cytometry. Platelets. 15: 85-93.10. Din, J.N. <i>et al.</i> (2010) Effect of moderate walnut consumption on lipid profile, arterial stiffness and platelet activation in humans. Eur J Clin Nutr. 2011 Feb;65(2):234-9.11. Din, J.N. <i>et al.</i> (2008) Dietary intervention with oil rich fish reduces platelet-monocyte aggregation in man. Atherosclerosis. 197: 290-6.12. Schuberth, H.J. <i>et al.</i> (2007) Reactivity of cross-reacting monoclonal antibodies with canine leukocytes, platelets and erythrocytes. Vet Immunol Immunopathol. 119: 47-55.
-------------------	--

Storage	<p>Store at +4°C. DO NOT FREEZE.</p> <p>This product should be stored undiluted. This product is photosensitive and should be protected from light. Should this product contain a precipitate we recommend microcentrifugation before use.</p>
----------------	--

Guarantee	12 months from date of despatch.
------------------	----------------------------------

Health And Safety	Material Safety Datasheet documentation #10306 available at:
--------------------------	--

Information 10306: <https://www.bio-rad-antibodies.com/uploads/MSDS/10306.pdf>

Regulatory For research purposes only

Related Products

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL:RPE \(MCA928PE\)](#)

Recommended Useful Reagents

[HUMAN SEROBLOCK \(BUF070A\)](#)

[HUMAN SEROBLOCK \(BUF070B\)](#)

North & South Tel: +1 800 265 7376

America 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

'M342905:190110'

Printed on 15 Mar 2019

© 2019 Bio-Rad Laboratories Inc | [Legal](#) | [Imprint](#)