

Datasheet: MCA740GA BATCH NUMBER 150993

| Description: | MOUSE ANTI HUMAN CD42b |
|---------------|------------------------|
| Specificity: | CD42b |
| Other names: | GPIB-ALPHA |
| Format: | Purified |
| Product Type: | Monoclonal Antibody |
| Clone: | AK2 |
| Isotype: | lgG1 |
| Quantity: | 0.1 mg |

Product Details

| Applications | This product has been r | eported to | work in tl | ne following application | s This information is | | |
|-----------------------------|--|--------------|------------|---------------------------|------------------------|--|--|
| | 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 <u>www.bio-</u> | | | | | | |
| | | | | | | | |
| | rad-antibodies.com/prot | | | | | | |
| | · · · · · · | Yes | No | Not Determined | Suggested Dilution | | |
| | Flow Cytometry | - | | | 1/50 - 1/100 | | |
| | ELISA | - | | | | | |
| | Immunoprecipitation | - | | | | | |
| | Where this antibody has | s not been | tested for | r use in a particular teo | hnique this does not | | |
| | necessarily exclude its use in such procedures. The suggested working dilution is given | | | | | | |
| | as a guide only. It is rec | ommende | d that the | user titrates the antibo | ody for use in his/her | | |
| | own system using appro | opriate neg | gative/pos | itive controls. | | | |
| Target Species | Human | | | | | | |
| ranget opeolog | Turnan | | | | | | |
| Product Form | Purified IgG - liquid | | | | | | |
| Preparation | Purified IgG prepared b | v affinity c | hromatoq | ranhy on Protein G from | n tissue culture | | |
| | supernatant | y uninty o | mematog | | | | |
| Buffer Solution | Phosphate buffered sali | ne | | | | | |
| Preservative Stabilisers | 0.09% Sodium Azide | | | | | | |
| Carrier Free | Yes | | | | | | |

| IgG concentration 1 mg/ml |
|---|
| UniProt: <u>P07359</u> <u>Related reagents</u> Entrez Gene: <u>2811</u> GP1BA <u>Related reagents</u> |
| AB_324295 |
| Mouse anti Human CD42b antibody, clone AK2 recognizes the human CD42b cell surface antigen, also known as platelet glycoprotein GP1B. |
| CD42b is expressed by platelets and megakaryocytes. Clone AK2 has been reported to block the binding of von Willebrand Factor (VWF) to platelets. |
| Use 10ul of the suggested working dilution to label 100ul whole blood. |
| Ward, C.M. & Berndt, M.C. (1995) Epitope and functional characterization of the CD42 (gplb/IX) mAb panel. Leucocyte Typing V. White Cell Differentiation Antigens. Volume Two. Oxford University Press, Oxford. Burgess, J.K. <i>et al.</i> (1998) Quinine-dependent antibodies bind a restricted set of epitopes on the glycoprotein Ib-IX complex: characterization of the epitopes. <u>Blood. 92</u>: 2366-73. Burgess, J.K. <i>et al.</i> (2000) Rifampicin-dependent antibodies. <u>Blood. 95</u>: 1988-92. Jayo, A. <i>et al.</i> (2010) L718P mutation in the membrane-proximal cytoplasmic tail of beta 3 promotes abnormal alpha IIb beta 3 clustering and lipid microdomain coalescence, and associates with a thrombasthenia-like phenotype. <u>Haematologica. 95</u>: 1158-66. Lova, P. <i>et al.</i> (2000) Contribution of protease-activated receptors 1 and 4 and glycoprotein Ib-IX-V in the G(i)-independent activation of platelet Rap1B by thrombin. J <u>Biol Chem. 279</u>: 25299-306. Shen, Y. <i>et al.</i> (2000) Requirement of leucine-rich repeats of glycoprotein (GP) Ibalpha for shear-dependent and static binding of von Willebrand factor to the platelet glycoprotein IX gene in three siblings with Bernard-Soulier syndrome. <u>Blood. 81</u>: 2339-47. Nomura, S. <i>et al.</i> (2008) Platelets undergo phosphorylation of Syk at Y525/526 and Y352 in response to pathophysiological shear stress. <u>Am J Physiol Cell Physiol. 295</u>: C1045-54. Balduini, A. <i>et al.</i> (2008) Adhesive receptors, extracellular proteins and myosin IIA orchestrate proplatelet formation by human megakaryocytes. <u>J Thromb Haemost. 6</u>: 1900-7. |
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| | aggregation. <u>Blood Coagul Fibrinolysis. 20: 511-6.</u> | | | | |
|-------------------|--|--|--|--|--|
| | 12. Tasneem, S. <i>et al.</i> (2009) Platelet adhesion to multimerin 1 in vitro: influences of | | | | |
| | platelet membrane receptors, von Willebrand factor and shear. <u>J Thromb Haemost. 7:</u> <u>685-92.</u> | | | | |
| | 13. Lincoln, B. <i>et al.</i> (2010) Integrated system investigating shear-mediated platelet interactions with von Willebrand factor using microliters of whole blood <u>Anal Biochem.</u> | | | | |
| | <u>405: 174-83.</u> | | | | |
| | 14. Goetzl EJ et al. (2016) Human plasma platelet-derived exosomes: effects of aspirin. | | | | |
| | FASEB J. Feb 12. pii: fj.201500150R. [Epub ahead of print] | | | | |
| | 15. Michalska-Jakubus, M. et al. (2016) Plasma endothelial microparticles reflect the | | | | |
| | extent of capillaroscopic alterations and correlate with the severity of skin involvement in | | | | |
| | systemic sclerosis. <u>Microvasc Res. Nov 23. pii: S0026-2862(16)30097-8. [Epub ahead of print]</u> | | | | |
| | 16. Ralph, A. <i>et al.</i> (2016) Computational Tracking of Shear-Mediated Platelet Interactions | | | | |
| | with von Willebrand Factor. Cardiovasc Eng Technol. 7 (4): 389-405. | | | | |
| | 17. Rossi, E. et al. (2017) Human endoglin as a potential new partner involved in platelet- | | | | |
| | endothelium interactions. Cell Mol Life Sci. Oct 28 [Epub ahead of print]. | | | | |
| Storage | Store at +4°C or at -20°C if preferred. | | | | |
| | This product should be stored undiluted. | | | | |
| | Storage in frost free freezers is not recommended. 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 | | | | |
| Health And Safety | Material Safety Datasheet documentation #10040 available at: | | | | |
| Information | https://www.bio-rad-antibodies.com/SDS/MCA740GA | | | | |
| | 10040 | | | | |
| Regulatory | For research purposes only | | | | |

Related Products

Recommended Secondary Antibodies

| Rabbit Anti Mouse IgG (STAR12) | <u>RPE</u> | | | |
|---|------------------|--|--|--|
| Goat Anti Mouse IgG IgA IgM (STAR87) <u>HRP</u> | | | | |
| Goat Anti Mouse IgG (STAR76) | <u>RPE</u> | | | |
| Goat Anti Mouse IgG (STAR70) | <u>FITC</u> | | | |
| Rabbit Anti Mouse IgG (STAR13) | <u>HRP</u> | | | |
| Goat Anti Mouse IgG (Fc) (STAR120) | <u>FITC, HRP</u> | | | |
| Rabbit Anti Mouse IgG (STAR9) | <u>FITC</u> | | | |
| Goat Anti Mouse IgG (STAR77) | HRP | | | |

Goat Anti Mouse IgG (H/L) (STAR117...) Alk. Phos., DyLight®488, DyLight®550,

Alk. Phos., DyLight®488, DyLight®550, DyLight®650, DyLight®680, DyLight®800, FITC, HRP

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL (MCA928)

| North & South | Tel: +1 800 265 7376 | Worldwide |
|---------------|--------------------------------------|-----------|
| America | Fax: +1 919 878 3751 | |
| | Email: antibody_sales_us@bio-rad.com | |

 Tel: +44 (0)1865 852 700
 Europe

 Fax: +44 (0)1865 852 739
 Email: antibody_sales_uk@bio-rad.com

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 'M368858:200529'

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