Datasheet: MCA2299EL

Description:	HAMSTER ANTI MOUSE CD61:Low Endotoxin
Specificity:	CD61
Other names:	INTEGRIN BETA 3 CHAIN
Format:	Low Endotoxin
Product Type:	Monoclonal Antibody
Clone:	HM beta 3.1
Isotype:	IgG
Quantity:	0.5 mg

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	▪			1/25 - 1/50
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA			▪	
Immunoprecipitation	▪			
Western Blotting			▪	
Functional Assays	▪			

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	Mouse
Species Cross Reactivity	Reacts with: Rat **N.B.** Antibody reactivity and working conditions may vary between species.
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	None present
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml

Immunogen	Mouse alpha 5 beta 3 protein purified from the mouse hybridoma 2B4.
External Database Links	**UniProt:** O54890 Related reagents **Entrez Gene:** 16416 Itgb3 Related reagents
Fusion Partners	Spleen cells from immunised Armenian hamsters were fused with cells of the P3U1 mouse myeloma cell line.
Specificity	**Hamster anti Mouse CD61 antibody, clone HM beta 3-1** recognizes the murine integrin beta 3 subunit (CD61), a ~90 kDa a type I membrane protein, expressed primarily on megakaryocytes, platelets, monocytes, macrophages, granulocytes and endothelial cells. CD61 associates with either the alpha IIb integrin (CD41) or the alpha V integrin (CD51) to form the platelet glycoprotein complex IIb/IIIa and the vitronectin receptor (VNR) respectively. The heterodimers formed with CD61 are receptor for a variety of ligands including fibrinogen, fibronectin, von Willebrands factor (vWF), vitronectin and thrombospondin. Hamster anti Mouse CD61 antibody, clone HM beta 3-1 is reported to partially inhibit the binding of CD61 to fibronectin (Yasuda *et al.* 1995).
Flow Cytometry	Use 10ul of the suggested working dilution to label 10^6 cells in 100ul.
References	1. Yasuda, M. *et al*. (1995) Expression and function of fibronectin binding integrins on rat mast cells. Int. Immunol. 7:251-258. 2. Hodkinson, P.S. *et al.* (2007) Mammalian NOTCH-1 activates beta1 integrins via the small GTPase R-Ras. J Biol Chem. 282: 28991-9001. 3. Moore, S.F. *et al*. (2015) Loss of the insulin receptor in murine megakaryocytes/platelets causes thrombocytosis and alterations in IGF signalling. Cardiovasc Res. 107 (1): 9-19. 4. Kraft, S. *et al.* (2016) Identification and characterization of a unique role for EDB fibronectin in phagocytosis. J Mol Med (Berl). 94 (5): 567-81. 5. Raouf, J. *et al.* (2016) mPGES-1 deletion affects platelet functions in mice. Clin Sci (Lond). Oct 7. pii: CS20160463. [Epub ahead of print]
Storage	Store at -20^{o}C only. 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.
Shelf Life	18 months from date of despatch.
Health And Safety Information	Material Safety Datasheet Documentation #10162 available at: https://www.bio-rad-antibodies.com/uploads/MSDS/10162.pdf
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Hamster IgG (STAR104...)	DyLight®549, DyLight®649, DyLight®800, FITC
Goat Anti Hamster IgG (STAR79...)	Biotin, FITC, HRP, RPE

Recommended Negative Controls

HAMSTER (ARMENIAN) IgG NEGATIVE CONTROL:Low Endotoxin (MCA2356EL)

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

'M287591:160607'

Printed on 02 Jun 2017