

Datasheet: MCA2299F

Description:	HAMSTER ANTI MOUSE CD61:FITC
Specificity:	CD61
Other names:	INTEGRIN BETA 3 CHAIN
Format:	FITC
Product Type:	Monoclonal Antibody
Clone:	HM beta 3.1
Isotype:	IgG
Quantity:	0.1 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	▪			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

Mouse

Species Cross Reactivity

Reacts with: Rat

N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

Product Form

Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid

Max Ex/Em

Fluorophore	Excitation Max (nm)	Emission Max (nm)
FITC	490	525

Preparation

Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant

Buffer Solution

Phosphate buffered saline

Preservative Stabilisers	0.09% sodium azide (NaN ₃) 1% bovine serum albumin
Approx. Protein Concentrations	IgG concentration 0.1 mg/ml
Immunogen	Mouse alpha 5 beta 3 protein purified from the mouse hybridoma 2B4.
External Database Links	<p>UniProt: O54890 Related reagents</p> <p>Entrez Gene: 16416 Itgb3 Related reagents</p>
RRID	AB_566860
Fusion Partners	Spleen cells from immunised Armenian hamsters were fused with cells of the P3U1 mouse myeloma cell line.
Specificity	<p>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.</p> <p>Hamster anti Mouse CD61 antibody, clone HM beta 3-1 is reported to partially inhibit the binding of CD61 to fibronectin (Yasuda <i>et al.</i> 1995).</p>
Flow Cytometry	Use 10µl of the suggested working dilution to label 10 ⁶ cells in 100µl. The Fc region of monoclonal antibodies may bind to cells expressing low affinity Fc receptors. This may be reduced by using SeroBlock FcR (BUF041A/BUF041B).
References	<ol style="list-style-type: none"> 1. Yasuda, M. <i>et al.</i> (1995) Expression and function of fibronectin binding integrins on rat mast cells. Int Immunol. 7 (2): 251-8. 2. Hodkinson, P.S. <i>et al.</i> (2007) Mammalian NOTCH-1 activates beta1 integrins via the small GTPase R-Ras. J Biol Chem. 282 (39): 28991-9001. 3. Moore, S.F. <i>et al.</i> (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. <i>et al.</i> (2016) Identification and characterization of a unique role for EDB fibronectin in phagocytosis. J Mol Med (Berl). 94 (5): 567-81. 5. Raouf, J. <i>et al.</i> (2016) mPGES-1 deletion affects platelet functions in mice. Clin Sci (Lond). Oct 07 [Epub ahead of print].

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

Health And Safety Information Material Safety Datasheet documentation #10041 available at: <https://www.bio-rad-antibodies.com/SDS/MCA2299F>
10041

Regulatory For research purposes only

Related Products

Recommended Negative Controls

[HAMSTER \(ARMENIAN\) IgG NEGATIVE CONTROL:FITC \(MCA2356F\)](#)

Recommended Useful Reagents

[MOUSE SEROBLOCK FcR \(BUF041A\)](#)

[MOUSE SEROBLOCK FcR \(BUF041B\)](#)

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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](https://www.bio-rad-antibodies.com/datasheets)

'M414266:221205'

Printed on 25 Mar 2023

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