

Datasheet: MCA2299F

**BATCH NUMBER 150388**

<b>Description:</b>	HAMSTER ANTI MOUSE CD61:FITC
<b>Specificity:</b>	CD61
<b>Other names:</b>	INTEGRIN BETA 3 CHAIN
<b>Format:</b>	FITC
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	HM beta 3.1
<b>Isotype:</b>	IgG
<b>Quantity:</b>	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](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	▪			Neat - 1/10

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. 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

<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.09% Sodium Azide 1% Bovine Serum Albumin
<b>Approx. Protein Concentrations</b>	IgG concentration 0.1 mg/ml
<b>Immunogen</b>	Mouse alpha 5 beta 3 protein purified from the mouse hybridoma 2B4.
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">O54890</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">16416</a> Itgb3    <a href="#">Related reagents</a></p>
<b>RRID</b>	AB_566860
<b>Fusion Partners</b>	Spleen cells from immunised Armenian hamsters were fused with cells of the P3U1 mouse myeloma cell line.
<b>Specificity</b>	<p><b>Hamster anti Mouse CD61 antibody, clone HM beta 3-1</b> 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 (<a href="#">Yasuda et al. 1995</a>).</p>
<b>Flow Cytometry</b>	<p>Use 10ul of the suggested working dilution to label 10<sup>6</sup> cells in 100ul.</p> <p>The Fc region of monoclonal antibodies may bind non-specifically to cells expressing low affinity Fc receptors. This may be reduced by using SeroBlock FcR (<a href="#">BUF041A/B</a>).</p>
<b>References</b>	<ol style="list-style-type: none"> <li>1. Yasuda, M. <i>et al.</i> (1995) Expression and function of fibronectin binding integrins on rat mast cells. <a href="#">Int Immunol. 7 (2): 251-8.</a></li> <li>2. Hodkinson, P.S. <i>et al.</i> (2007) Mammalian NOTCH-1 activates beta1 integrins via the small GTPase R-Ras. <a href="#">J Biol Chem. 282 (39): 28991-9001.</a></li> <li>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. <a href="#">Cardiovasc Res. 107 (1): 9-19.</a></li> <li>4. Kraft, S. <i>et al.</i> (2016) Identification and characterization of a unique role for EDB fibronectin in phagocytosis. <a href="#">J Mol Med (Berl). 94 (5): 567-81.</a></li> </ol>

5. Raouf, J. *et al.* (2016) mPGES-1 deletion affects platelet functions in mice. [Clin Sci \(Lond\). Oct 07 \[Epub ahead of print\].](#)

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**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. This product is photosensitive and should be protected from light.

Avoid repeated freezing and thawing as this may denature the antibody.

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**Guarantee** 12 months from date of despatch

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

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## 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)

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