

Datasheet: MCA2299PE

BATCH NUMBER 1610

Description:	HAMSTER ANTI MOUSE CD61:RPE
Specificity:	CD61
Other names:	INTEGRIN BETA 3 CHAIN
Format:	RPE
Product Type:	Monoclonal Antibody
Clone:	HM beta 3.1
Isotype:	IgG
Quantity:	100 TESTS

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 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 R. Phycoerythrin (RPE) - lyophilized

Reconstitution

Reconstitute with 1.0 ml distilled water

Max Ex/Em

Fluorophore	Excitation Max (nm)	Emission Max (nm)
RPE 488nm laser	496	578

Preparation

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

supernatant

Buffer Solution Phosphate buffered saline

Preservative 0.09% Sodium Azide
Stabilisers 1% Bovine Serum Albumin
5% Sucrose

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](#)

RRID AB_566862

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 10⁶ cells in 100ul.

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 ([BUF041A/B](#)).

References

1. Yasuda, M. *et al.* (1995) Expression and function of fibronectin binding integrins on rat mast cells. [Int Immunol. 7 \(2\): 251-8.](#)
2. Hodkinson, P.S. *et al.* (2007) Mammalian NOTCH-1 activates beta1 integrins via the small GTPase R-Ras. [J Biol Chem. 282 \(39\): 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 07 \[Epub ahead of print\]](#).

Storage

Store at +4°C.

DO NOT FREEZE

This product should be stored undiluted. 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 #20487 available at: <https://www.bio-rad-antibodies.com/SDS/MCA2299PE>
20487

Regulatory

For research purposes only

Related Products

Recommended Negative Controls

[HAMSTER \(ARMENIAN\) IgG NEGATIVE CONTROL:RPE \(MCA2356PE\)](#)

Recommended Useful Reagents

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

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

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