

CD29 (Integrin beta 1) Monoclonal Antibody (eBioHMb1-1 (HMb1-1)), PE, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse, Rat
Published Species	Rat, Mouse, Human
Host/Isotype	Armenian hamster / IgG
Recommended Isotype Control	Armenian Hamster IgG Isotype Control (eBio299Arm), PE, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	eBioHMb1-1 (HMb1-1)
Conjugate	PE
Form	Liquid
Concentration	0.2 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.1% gelatin
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_763478

Applications	Tested Dilution	Publications
Immunocytochemistry (ICC/IF)	-	1 Publication
Flow Cytometry (Flow)	1 µg/test	63 Publications

Product Specific Information

Description: The eBioHMb1-1 monoclonal antibody reacts with mouse and rat CD29 (integrin beta 1), a 110-120 kDa member of the beta integrin family expressed by leukocytes, endothelial, smooth muscle and epithelial cells. CD29 binds non-covalently with the alpha integrins CD49a-f to form the VLA-1 through VLA-6 complexes, as well as with CD51. These alpha-beta integrin heterodimers are capable of mediating a variety of cellular responses including adhesion, trafficking, proliferation and differentiation. All integrins which include CD29 bind to extracellular matrix proteins including collagen, laminin, fibronectin and vitronectin, whereas some CD29-containing integrins can also interact with cellular receptors such as VCAM-1 and MadCAM-1.

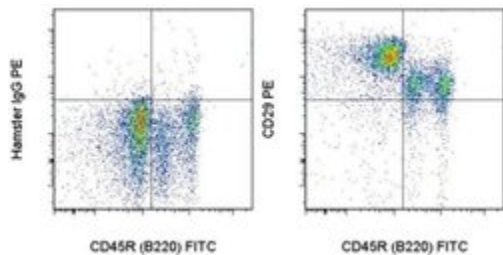
Applications Reported: This eBioHMb1-1 (HMb1-1) antibody has been reported for use in flow cytometric analysis.

Applications Tested: This eBioHMb1-1 (HMb1-1) antibody has been tested by flow cytometric analysis of mouse spleen, thymus and bone marrow cells. This can be used at less than or equal to 1 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Excitation: 488-561 nm; Emission: 578 nm; Laser: Blue Laser, Green Laser, Yellow-Green Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For CD29 (Integrin beta 1) Monoclonal Antibody (eBioHMb1-1 (HMb1-1)), PE, eBioscience™



CD29 (Integrin beta 1) Antibody (12-0291-82) in Flow

Staining of C57BL/6 bone marrow cells with Anti-Human/Mouse CD45R (B220) FITC (Product # 11-0452-82) and 0.5 µg of Armenian Hamster IgG Isotype Control PE (Product # 12-4888-81) (left) or 0.5 µg of Anti-Mouse/Rat CD29 (Integrin beta 1) PE (right). Total viable cells were used for analysis.

[View more figures on thermofisher.com](http://thermofisher.com)

Immunocytochemistry (1)

Journal of cellular and molecular medicine

BMSCs and miR-124a ameliorated diabetic nephropathy via inhibiting notch signalling pathway.

"12-0291 was used in Immunocytochemistry-immunofluorescence to explore the molecular mechanisms, the functions of miR-124a and bone marrow mesenchymal stem cells in the treatment of diabetic nephropathy."

Authors: Sun J,Zhao F,Zhang W,Lv J,Lv J,Yin A

Species
Rat

Dilution
Not Cited

Year
2018

Flow Cytometry (63)

Frontiers in immunology

Central Nervous System Barriers Impact Distribution and Expression of iNOS and Arginase-1 in Infiltrating Macrophages During Neuroinflammation.

"Published figure using CD29 (Integrin beta 1) monoclonal antibody (Product # 12-0291-82) in Flow Cytometry"

Authors: Ivan DC,Walthert S,Locatelli G

Species
Not Applicable

Dilution
Not Cited

Year
2021

Frontiers in cell and developmental biology

Upregulation of Extracellular Vesicles-Encapsulated miR-132 Released From Mesenchymal Stem Cells Attenuates Ischemic Neuronal Injury by Inhibiting Smad2/c-jun Pathway via Acvr2b Suppression.

"12-0291 was used in Flow cytometry/Cell sorting to demonstrate that activin receptor type IIB expression is inhibited by miR-132 from mesenchymal stem cells which attenuates ischemic neuronal injury."

Authors: Feng B,Meng L,Luan L,Fang Z,Zhao P,Zhao G

Species
Mouse

Dilution
Not Cited

Year
2021

[View more Flow references on thermofisher.com](#)

More applications with references on thermofisher.com

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