

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

Product Details	
Size	100 µg
Species	Mouse, Rat
Published Species	Artificial Control, Rat, Mouse, Human
Expression System	Armenian hamster / IgG
Recommended Isotype Control	Armenian Hamster IgG Isotype Control (eBio299Arm), FITC, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	eBioHMb1-1 (HMb1-1)
Conjugate	FITC
Form	Liquid
Concentration	0.5 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_2572449

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	1 µg/test	30 Publications
Immunofluorescence (IF)	-	2 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.

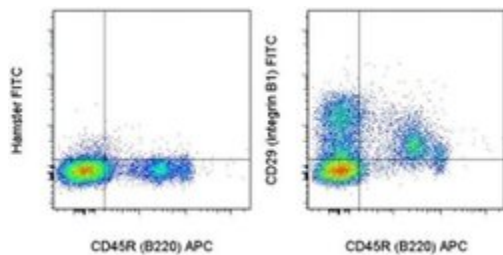
Applications Reported: This eBioHMb1-1 (HMb1-1) antibody has been reported for use in flow cytometric analysis.

Applications Tested: This eBioHMb1-1 (HMb1-1) antibody has been tested by flow cytometric analysis of mouse 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 nm; Emission: 520 nm; Laser: Blue Laser.

Filtration: 0.2 µm post-manufacturing filtered.

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



CD29 (Integrin beta 1) Antibody (11-0291-82) in Flow

Staining of C57Bl/6 bone marrow cells with Anti-Human/Mouse CD45R (B220) APC (Product # 17-0452-82) and 0.5 µg of Armenian Hamster IgG Isotype Control FITC (Product # 11-4888-81) (left) or 0.5 µg of Anti-Mouse/Rat CD29 (Integrin beta 1) FITC (right). Cells in the small scatter population were used for analysis.

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Flow Cytometry (30)

Journal of stem cell research and therapy

Induced Pluripotent Stem Cells derived Muscle Progenitors Effectively Mitigate Muscular Dystrophy through Restoring the Dystrophin Distribution.

Authors: Cai WF,Huang W,Wang L,Wang JP,Zhang L,Ashraf M,Wu S,Wang Y

Species
Mouse
Not Applicable

Dilution
Not Cited
Not Cited

Year
2020

Frontiers in immunology

Regulatory T Cells Control the Switch From *in situ* to Invasive Breast Cancer.

"Published figure using CD29 (Integrin beta 1) monoclonal antibody (Product # 11-0291-82) in Flow Cytometry"

Authors: Martinez LM,Robila V,Clark NM,Du W,Idowu MO,Rutkowski MR,Bos PD

Species
Artificial Control

Dilution
Not Cited

Year
2020

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

Immunofluorescence (2)

Breast cancer research : BCR

Integrin-Rac signalling for mammary epithelial stem cell self-renewal.

"Published figure using CD29 (Integrin beta 1) monoclonal antibody (Product # 11-0291-82) in Flow Cytometry"

Authors: Olabi S,Ucar A,Brennan K,Streuli CH

Species
Not Applicable

Dilution
Not Cited

Year
2018

Proceedings of the National Academy of Sciences of the United States of America

Casitas B-cell lymphoma (Cbl) proteins protect mammary epithelial cells from proteotoxicity of active c-Src accumulation.

"Published figure using CD29 (Integrin beta 1) monoclonal antibody (Product # 11-0291-82) in Immunofluorescence"

Authors: Mukhopadhyay C,Triplett A,Bargar T,Heckman C,Wagner KU,Naramura M

Species
Not Applicable

Dilution
Not Cited

Year
2016

More applications with references on thermofisher.com

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