

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

Product Details	
Size	25 µg
Species Reactivity	Mouse, Rat
Published Species	Mouse, Human
Host/Isotope	Armenian hamster / IgG
Recommended Isotype Control	Armenian Hamster IgG Isotype Control (eBio299Arm), Biotin, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	eBioHMb1-1 (HMb1-1)
Conjugate	Biotin
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_1518777

Applications	Tested	Dilution	Published
Flow Cytometry (Flow)	✓	0.125 µg/test	17 Publications
Immunofluorescence (IF)	-		2 Publications
Immunohistochemistry (Frozen) (IHC (F))	✓	Assay-Dependent	

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.

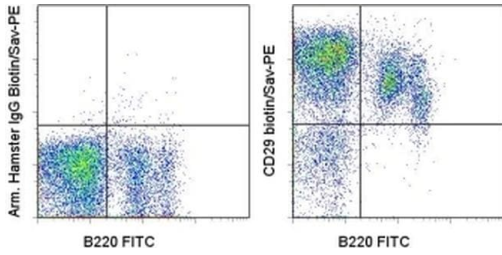
Applications Reported: This eBioHMb1-1 antibody has been reported for use in flow cytometric analysis, and immunohistology staining of frozen tissue sections.

Applications Tested: This eBioHMb1-1 antibody has been tested by flow cytometric analysis of mouse splenocytes. This can be used at less than or equal to 0.125 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.

Filtration: 0.2 µm post-manufacturing filtered.

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



CD29 (Integrin beta 1) Antibody (13-0291-80) in Flow

Staining of C57BL/6 bone marrow cells with Anti-Human/Mouse CD45R (B220) FITC (Product # 11-0452-82) and 0.125 µg of Armenian Hamster IgG Isotype Control Biotin (Product # 13-4888-81) (left) or 0.06 µg of Anti-Mouse/Rat CD29 Biotin (right) followed by Streptavidin PE (Product # 12-4317-87). Total viable cells were used for analysis.

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

19 References

Flow Cytometry (17)

Journal of stem cell research and therapy

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

"Published figure using CD29 (Integrin beta 1) monoclonal antibody (Product # 13-0291-80) in Flow Cytometry"

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

Species
Not Applicable

Dilution
Not Cited

Year
2019

Breast cancer research : BCR

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

"Published figure using CD29 (Integrin beta 1) monoclonal antibody (Product # 13-0291-80) in Flow Cytometry"

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

Species
Not Applicable

Dilution
Not Cited

Year
2018

[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 # 13-0291-80) 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 # 13-0291-80) 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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