

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

Product Details	
Size	100 µg
Species Reactivity	Mouse, Rat
Published Species	Rat, Mouse, Human
Host/Isotope	Armenian hamster / IgG
Recommended Isotype Control	Armenian Hamster IgG Isotype Control (eBio299Arm), APC, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	eBioHMb1-1 (HMb1-1)
Conjugate	APC
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_1210793

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.25 µg/test	28 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.

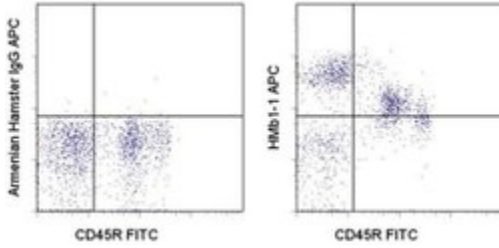
Applications Reported: This eBioHMb1-1 (HMb1-1) antibody has been reported for use in flow cytometric analysis.

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 0.25 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 10<sup>5</sup> to 10<sup>8</sup> cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Excitation: 633-647 nm; Emission: 660 nm; Laser: Red Laser.

Filtration: 0.2 µm post-manufacturing filtered.

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



### CD29 (Integrin beta 1) Antibody (17-0291-82) 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 APC (Product # 17-4888-82) (left) or 0.125 µg of Anti-Mouse/Rat CD29 APC (right). Total viable cells were used for analysis.

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## 28 References

### Flow Cytometry (28)

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 # 17-0291-82) 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 # 17-0291-82) in Flow Cytometry"

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

**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
2018

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