

# 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/Isotype	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	Publications
Immunohistochemistry (Frozen) (IHC (F))	Assay-Dependent	-
Immunocytochemistry (ICC/IF)	-	2 Publications
Flow Cytometry (Flow)	0.125 µg/test	30 Publications

## Product Specific Information

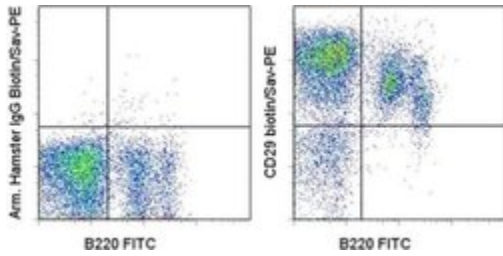
**Description:** The eBioHMb1-1 monoclonal antibody reacts with mouse and rat CD29 (integrin beta 1), a 110-120 kDa member of the beta integrin family expressed by leukocytes, endothelial, smooth muscle and epithelial cells. CD29 binds non-covalently with the alpha integrins CD49a-f to form the VLA-1 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 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 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.

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.

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## Immunocytochemistry (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

## Flow Cytometry (30)

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 # 13-0291-80) in Flow Cytometry"  
 Authors: Ivan DC,Walthert S,Locatelli G

**Species**  
 Not Applicable

**Dilution**  
 Not Cited

**Year**  
 2021

International journal of molecular sciences

### Therapeutic Potential of Mesenchymal Stem Cells in a Pre-Clinical Model of Diabetic Kidney Disease and Obesity.

"Published figure using CD29 (Integrin beta 1) monoclonal antibody (Product # 13-0291-80) in Flow Cytometry"  
 Authors: Sávio-Silva C,Soinski-Sousa PE,Simplício-Filho A,Bastos RMC,Beyerstedt S,Rangel ÉB

**Species**  
 Not Applicable

**Dilution**  
 Not Cited

**Year**  
 2021

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

## More applications with references on thermofisher.com

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