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

Product Details

Size	500 µg
Species Reactivity	Mouse, Rat
Host/Isotype	Armenian hamster / IgG
Recommended Isotype Control	Armenian Hamster IgG Isotype Control (eBio299Arm), Functional Grade, eBioscience™
Class	Monoclonal
Туре	Antibody
Clone	eBioHMb1-1 (HMb1-1)
Conjugate	Functional Grade
Form	Liquid
Concentration	1 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	no preservative
Storage conditions	4° C
RRID	AB_657731

Applications	Tested Dilution	Publications
Immunocytochemistry (ICC/IF)	-	1 Publication
Flow Cytometry (Flow)	1 µg/test	18 Publications
Neutralization (Neu)	Assay-Dependent	-
Functional Assay (FN)	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, proliferaton 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. The HMb1-1 monoclonal antibody has been reported to block VLA-dependent cellular functions, including the adhesion of mouse tumor cell lines to extracellular matrix proteins, and splenic T-cell proliferation induced by anti-CD3 monoclonal antibody.

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 μ g per test. A test is defined as the amount (μ g) of antibody that will stain a cell sample in a final volume of 100 μ L. Cell number should be determined empirically but can range from 10^5 to

10^8 cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Storage and handling: Use in a sterile environment.

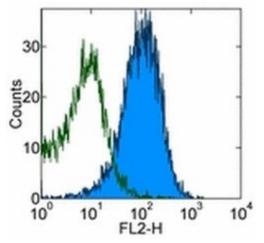
Filtration: 0.2 µm post-manufacturing filtered.

Purity: Greater than 90%, as determined by SDS-PAGE.

Endotoxin Level: Less than 0.001 ng/µg antibody, as determined by LAL assay.

Aggregation: Less than 10%, as determined by HPLC.

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



CD29 (Integrin beta 1) Antibody (16-0291-85) in Flow

Staining of C57BI/6 thymocytes with 0.5 µg of Armenian Hamster IgG Isotype Control Purified (Product # 14-4888) (open histogram) or 0.5 µg of Anti-Mouse/Rat CD29 Purified (filled histogram) followed by Anti-Armenian Hamster IgG Biotin (Product # 13-4113) and Streptavidin PE (Product # 12-4317).Total viable cells were used for analysis.

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□ 19 References

Immunocytochemistry (1) Breast cancer research : BCR Integrin-Rac signalling for mammary epithelial stem cell self-renewal. "Published figure using CD29 (Integrin beta 1) monoclonal antibody (Product # 16-0291-81) in Flow Cytometry" Authors: Olabi S,Ucar A,Brennan K,Streuli CH Flow Cytometry (18)

Frontiers in immunology	Species
Central Nervous System Barriers Impact Distribution and Expression of	Not Applicabl Dilution Not Cited
iNOS and Arginase-1 in Infiltrating Macrophages During Neuroinflammation.	
"Published figure using CD29 (Integrin beta 1) monoclonal antibody (Product # 16-0291-81) in Flow Cytometry"	Year
Authors: Ivan DC,Walthert S,Locatelli G	2021
International journal of molecular sciences	Species Not Applicable
Therapeutic Potential of Mesenchymal Stem Cells in a Pre-Clinical Model	
of Diabetic Kidney Disease and Obesity.	Dilution
"Published figure using CD29 (Integrin beta 1) monoclonal antibody (Product # 16-0291-81) in Flow Cytometry"	Not Cited
Authors: Sávio-Silva C,Soinski-Sousa PE,Simplício-Filho A,Bastos RMC,Beyerstedt S,Rangel ÉB	Year
	2021

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Species Not Applicable

Dilution Not Cited

Year 2018

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