

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

Product Details	
Size	100 µg
Species Reactivity	Mouse, Rat
Published Species	Mouse, Human
Host/Isotype	Armenian hamster / IgG
Class	Monoclonal
Type	Antibody
Clone	eBioHMb1-1 (HMb1-1)
Conjugate	Unconjugated
Form	Liquid
Concentration	0.5 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	4° C
RRID	AB_657727

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	2 Publications
Immunocytochemistry (ICC/IF)	-	5 Publications
Flow Cytometry (Flow)	1 µg/test	62 Publications
Immunoprecipitation (IP)	Assay-Dependent	-
Functional Assay (FN)	Assay-Dependent	1 Publication

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, and immunoprecipitation. (Please use Functional Grade purified eBioHMb1-1 (HMb1-1), cat. 16-0291, in functional assays.).

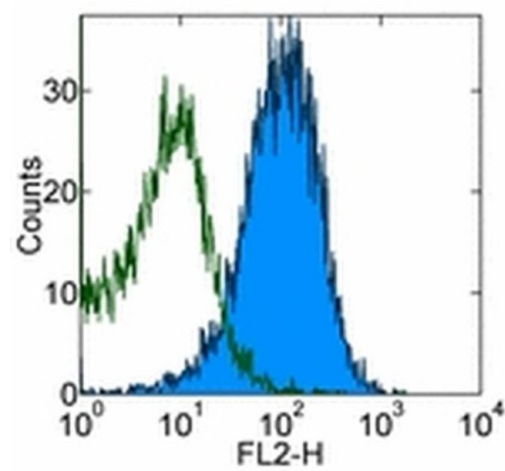
Applications Tested: This eBioHMb1-1 (HMb1-1) antibody has been tested by flow cytometric analysis of mouse spleen, thymus and bone marrow cells. This can be used at less than or equal to 1 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 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.

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

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

Filtration: 0.2 µm post-manufacturing filtered.

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



CD29 (Integrin beta 1) Antibody (14-0291-82) in Flow
Staining of C57Bl/6 thymocytes with 0.5 µg of Armenian Hamster IgG Isotype Control Purified (Product # 14-4888-81) (open histogram) or 0.5 µg of Anti-Mouse /Rat CD29 Purified (filled histogram) followed by Anti-Armenian Hamster IgG Biotin (Product # 13-4113-85) and Streptavidin PE (Product # 12-4317-87). Total viable cells were used for analysis.

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Immunohistochemistry (2)

NPJ Regenerative medicine

Differential activation of Ca^{2+} influx channels modulate stem cell potency, their proliferation/viability and tissue regeneration.

"Published figure using CD29 (Integrin beta 1) monoclonal antibody (Product # 14-0291-82) in Immunohistochemistry"

Authors: Ahamad N,Sun Y,Nascimento Da Conceicao V,Xavier Paul Ezhilan CRD,Natarajan M,Singh BB

Year
2021

Oncoimmunology

Long-peptide vaccination with driver gene mutations in p53 and Kras induces cancer mutation-specific effector as well as regulatory T cell responses.

"14-0291 was used in Immunohistochemistry-immunofluorescence to study the immunotherapeutic potential of a panel of long peptides comprising driver gene mutations in TP35 and KRAS frequently found in gastrointestinal tumours."

Authors: Quandt J,Schlude C,Bartoschek M,Will R,Cid-Arregui A,Schölch S,Reissfelder C,Weitz J,Schneider M,Wiemann S,Momburg F,Beckhove P

Year
2021

Species
Mouse

Immunocytochemistry (5)

Frontiers in bioengineering and biotechnology

Thermo-sensitive hydrogel combined with SHH expressed RMSCs for rat spinal cord regeneration.

"Published figure using CD29 (Integrin beta 1) monoclonal antibody (Product # 14-0291-82) in Immunocytochemistry"

Authors: Gu J,Gao B,Zafar H,Chu B,Feng X,Ni Y,Xu L,Bao R

Year
2022

Molecular biology of the cell

An IFT20 mechanotraficking axis is required for integrin recycling, focal adhesion dynamics, and polarized cell migration.

"Published figure using CD29 (Integrin beta 1) monoclonal antibody (Product # 14-0291-82) in Immunocytochemistry"

Authors: Su S,Begum S,Ezratty EJ

Year
2020

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More applications with references on thermofisher.com

Flow (62)

FN (1)

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