

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

Product Details	
Size	25 µg
Species Reactivity	Mouse, Rat
Published Species	Rat, 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
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_1518777

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	2 Publications
Immunohistochemistry (Frozen) (IHC (F))	Assay-Dependent	-
Immunocytochemistry (ICC/IF)	-	4 Publications
Flow Cytometry (Flow)	0.125 µg/test	54 Publications

Product Specific Information

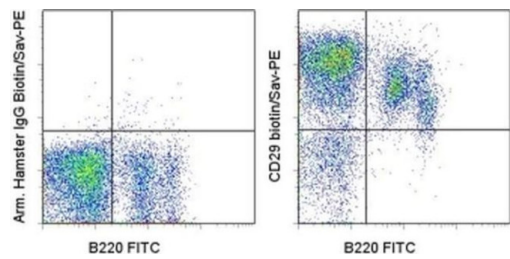
Description: The eBioHMb1-1 monoclonal antibody reacts with mouse and rat CD29 (integrin beta 1), a 110-120 kDa member of the beta integrin family expressed by leukocytes, endothelial, smooth muscle and epithelial cells. CD29 binds non-covalently with the alpha integrins CD49a-f to form the VLA-1 through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

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Immunohistochemistry (2)

<p>Cell discovery</p> <p>A positive mechanobiological feedback loop controls bistable switching of cardiac fibroblast phenotype.</p> <p>"13-0291-80 was used in Immunohistochemistry to show that by simultaneously interfering with the newly identified mechanical positive feedback loop and modulating matrix elastic modulus, we reversed markers of phenotypical transition of CF, suggesting new therapeutic targets for fibrotic disease."</p> <p>Authors: Niu L,Cheng B,Huang G,Nan K,Han S,Ren H,Liu N,Li Y,Genin GM,Xu F</p>	<p>Year 2022</p> <p>Species Rat</p> <p>Dilution 1:200</p>
<p>NPJ Regenerative medicine</p> <p>Differential activation of Ca²⁺ influx channels modulate stem cell potency, their proliferation/viability and tissue regeneration.</p> <p>"Published figure using CD29 (Integrin beta 1) monoclonal antibody (Product # 13-0291-80) in Immunohistochemistry"</p> <p>Authors: Ahamad N,Sun Y,Nascimento Da Conceicao V,Xavier Paul Ezhilan CRD,Natarajan M,Singh BB</p>	<p>Year 2021</p>

Immunocytochemistry (4)

<p>Frontiers in bioengineering and biotechnology</p> <p>Thermo-sensitive hydrogel combined with SHH expressed RMSCs for rat spinal cord regeneration.</p> <p>"Published figure using CD29 (Integrin beta 1) monoclonal antibody (Product # 13-0291-80) in Immunocytochemistry"</p> <p>Authors: Gu J,Gao B,Zafar H,Chu B,Feng X,Ni Y,Xu L,Bao R</p>	<p>Year 2022</p>
<p>Molecular biology of the cell</p> <p>An IFT20 mechanotraficking axis is required for integrin recycling, focal adhesion dynamics, and polarized cell migration.</p> <p>"Published figure using CD29 (Integrin beta 1) monoclonal antibody (Product # 13-0291-80) in Immunocytochemistry"</p> <p>Authors: Su S,Begum S,Ezratty EJ</p>	<p>Year 2020</p>

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Flow (54)

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