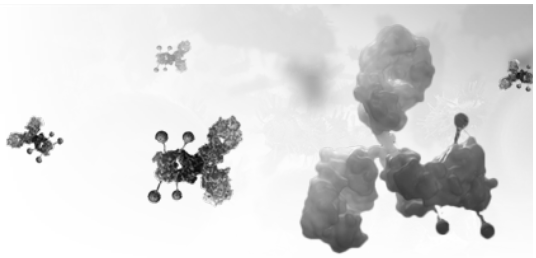

Anti-ITGB1 monoclonal antibody, clone HM beta 1-1 [Biotin] (CABT-45867HM)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	Hamster anti Mouse CD29 antibody, clone HM beta 1-1 recognizes the murine integrin beta 1 subunit (CD29), a 110kDa cell surface glycoprotein that is widely expressed by a variety of cells including all leucocytes. CD29 forms non-covalent bonds with the integrin alpha subunits, including CD51 and CD49a-f, to form heterodimers. The ligands for these heterodimers include collagen, fibronectin, laminin and vascular adhesion molecule-1. In the immune system beta 1 integrins play an important role in cell adhesion, migration, activation and differentiation. Hamster anti Mouse CD29 antibody, clone HM beta 1-1 is reported to inhibit beta 1 integrin mediated adhesion. Flow Cytometry Use 10ul of the suggested working dilution to label 106 cells in 100ul. The Fc region of monoclonal antibodies may bind non-specifically to cells expressing low affinity fc receptors.
Specificity	ITGB1
Immunogen	Purified mouse VLA-4 antigen
Isotype	IgG
Source/Host	Hamster
Species Reactivity	Mouse, Rat
Clone	HM beta 1-1
Conjugate	Biotin
Applications	FC
Format	Purified IgG conjugated to Biotin - liquid
Size	100 µg

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Preservative	See individual product datasheet
Storage	in frost-free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody.

GENE INFORMATION

Gene Name	Itgb1 integrin beta 1 (fibronectin receptor beta) [Mus musculus (house mouse)]
Official Symbol	ITGB1
Synonyms	ITGB1; integrin beta 1 (fibronectin receptor beta); CD29; Fnrb; gpIIa; Gm9863; AA409975; AA960159; 4633401G24Rik; ENSMUSG00000051907; integrin beta-1; VLA-4 subunit beta; fibronectin receptor subunit beta;
Entrez Gene ID	16412
Protein Refseq	NP_034708
UniProt ID	P09055
Chromosome Location	8 E2; 8
Pathway	Adaptive Immune System; Arrhythmogenic right ventricular cardiomyopathy (ARVC); Axon guidance; Bacterial invasion of epithelial cells; Basigin interactions; CHL1 interactions; Cell adhesion molecules (CAMs); Cell junction organization;
Function	actin binding; alpha-actinin binding; cell adhesion molecule binding; collagen binding; collagen binding involved in cell-matrix adhesion; fibronectin binding; glycoprotein binding; integrin binding; kinase binding; contributes_to laminin binding; laminin binding; metal ion binding; peptide binding; protease binding; protein binding; protein complex binding; protein domain specific binding; protein heterodimerization activity; protein kinase binding; receptor activity; receptor binding;

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