



## Anti-ITGB1 monoclonal antibody, clone HM beta 1-1 [FITC] (CABT-45869HM)

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 10<sup>6</sup> cells in 100ul. The Fc region of monoclonal antibodies may bind non-specifically to cells expressing low affinity Fc receptors.

<b>Specificity</b>	ITGB1
<b>Immunogen</b>	Purified mouse VLA-4 antigen
<b>Isotype</b>	IgG
<b>Source/Host</b>	Hamster
<b>Species Reactivity</b>	Mouse, Rat
<b>Clone</b>	HM beta 1-1
<b>Conjugate</b>	FITC
<b>Applications</b>	FC
<b>Format</b>	Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid
<b>Size</b>	100 µg

<b>Preservative</b>	See individual product datasheet
<b>Storage</b>	in frost-free freezers is not recommended. This product is photosensitive and should be protected from light. Avoid repeated freezing and thawing as this may denature the antibody.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">Itgb1 integrin beta 1 (fibronectin receptor beta) [ Mus musculus (house mouse) ]</a>
<b>Official Symbol</b>	ITGB1
<b>Synonyms</b>	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;
<b>Entrez Gene ID</b>	<a href="#">16412</a>
<b>Protein Refseq</b>	<a href="#">NP_034708</a>
<b>UniProt ID</b>	P09055
<b>Chromosome Location</b>	8 E2; 8
<b>Pathway</b>	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;
<b>Function</b>	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;