

Recombinant Human Integrin, Beta 1 (fibronectin receptor, beta polypeptide, antigen CD29 includes MDF2, MSK12), GST-tagged

Cat. No. ITGB1-1181H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human ITGB1 is a 130 kDa transmembrane glycoprotein including a GST Tag, which is expressed in E. coli.
Species	Human
Source	E.coli
Description	Integrin beta1 (ITGB1), also known as CD29, is a 130 kDa transmembrane glycoprotein that forms noncovalent complexes with various Integrin alpha subunits (including alpha 1, alpha 2, alpha 3, alpha 4, alpha 5, and alpha 6, also known as CD49a, CD49b, CD49c, CD49d, CD49e, and CD49f, respectively) to form the functional receptors that bind to specific extracellular matrix proteins. Integrin receptors are involved in the regulation of a variety of important biological functions, including embryonic development, wound repair, hemostasis, and prevention of programmed cell death. They are also implicated in abnormal pathological states such as tumor directed angiogenesis, tumor cell growth, and metastasis. These heterodimeric receptors bridge the cytoplasmic actin cytoskeleton with proteins present in the extracellular matrix and/or on adjacent cells. The clustering of integrins on a cell surface leads to the formation of focal contacts. Interactions between integrins and the extracellular matrix lead to activation of signal transduction pathways and regulation of gene expression.

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Form	Liquid in 50 mM Tris-Acetate, pH 7.5 + 1 mM EDTA + 20% Glycerol.
Molecular Weight	48 kDa
Concentration	100 µg/mL
Applications	ELISA, Inhibition Assays, Western Blot
Storage	Store at -20°C to -80°C. 1 year. Avoid repeated freeze/thaw cycles.
Official Symbol	ITGB1
GENE INFORMATION	
Gene Name	ITGB1 integrin, beta 1 (fibronectin receptor, beta polypeptide, antigen CD29 includes MDF2, MSK12) [Homo sapiens]
Synonyms	ITGB1; integrin, beta 1 (fibronectin receptor, beta polypeptide, antigen CD29 includes MDF2, MSK12); CD29; FNRB; MDF2; VLAB; GPIIA; MSK12; VLA-BETA; integrin beta-1; OTTHUMP00000019420; integrin VLA-4 beta subunit; very late activation protein, beta polypeptide; Fibronectin receptor subunit beta; CD29 antigen
Gene ID	3688
mRNA Refseq	NM_002211
Protein Refseq	NP_002202
MIM	135630
UniProt ID	P05556

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Chromosome Location	10p11.2
Pathway	Adaptive ImmuneSystem; Angiopoietin receptor Tie2-mediated signaling; Axon guidance;Bacterial invasion of epithelial cells; CHL1 interactions; Cell surfaceinteractions at the vascular wall; Dilated cardiomyopathy; ECM-receptorinteraction; Hypertrophic cardiomyopathy (HCM); Integrin cell surfaceinteractions; Pathogenic Escherichia coli infection; Reelin signalingpathway; Semaphorin interactions; Toxoplasmosis; VEGFR3 signaling inlymphatic endothelium
Function	actin binding;alpha-actinin binding; collagen binding; fibronectin binding; glycoproteinbinding; integrin binding; laminin binding; peptide binding; proteasebinding; protein binding; protein domain specific binding; proteinheterodimerization activity; protein kinase binding; receptor activity
Rendering based onPDB 1K11.	