

## Recombinant human ITGB1, His-tagged

**Cat. No.** ITGB1-2484H    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant human ITGB1 protein, fused to His-tag at N-terminus, was expressed in E.coli.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>Description</b>	Integrins are heterodimeric proteins made up of alpha and beta subunits. At least 18 alpha and 8 beta subunits have been described in mammals. Integrin family members are membrane receptors involved in cell adhesion and recognition in a variety of processes including embryogenesis, hemostasis, tissue repair, immune response and metastatic diffusion of tumor cells. This gene encodes a beta subunit. Multiple alternatively spliced transcript variants which encode different protein isoforms have been found for this gene.
<b>Form</b>	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.4M Urea, 10% glycerol
<b>Molecular Mass</b>	51.2kDa (462aa)
<b>AA Sequence</b>	MGSSHHHHHH SSGLVPRGSH MQTDENRCLK ANAKSCGECI QAGPNCGWCT NSTFLQEGMP TSARCDDLEA LKKKGCPPDD IENPRGSKDI KKNKNVTNRS KGTAEKLKPE DITQIQPQQL VLRLRSGEPQ TFTLKFRAE DYPIDLYYLM DLSYSMKDDL ENVKSLGTDL MNEMRRITSD FRIGFGSFVE KTVMPYISTT PAKLRNPCTS EQNCTSPFSY KNLVSLTNKG EVFNELVGKQ RISGNLDSPE GGFDAIMQVA VCGSLIGWRN VTRLLVFSTD AGFHFAGDGK LGGIVLPNDG

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QCHLENNMYT MSHYYDYPSI AHLVQKLSN NIQTIFAVTE EFQPVYKELK  
 NLIPKSAVGT LSANSSNVIQ LIIDAYNSLS SEVILENGKL SEGVTISYKS  
 YCKNGVNGTG ENGRKCSNIS IGDEVQFEIS ITSNKCPKKD SDSFKIRPLG  
 FTTEEVEVILQ YI

**Purity** >80 % by SDS - PAGE

**Applications** SDS-PAGE

**Storage** Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.

**Concentration** 1 mg/ml (determined by Bradford assay)

## GENE INFORMATION

**Gene Name** [ITGB1 integrin, beta 1 \(fibronectin receptor, beta polypeptide, antigen CD29 includes MDF2, MSK12\) \[ Homo sapiens \]](#)

**Official Symbol** ITGB1

**Synonyms** ITGB1; integrin, beta 1 (fibronectin receptor, beta polypeptide, antigen CD29 includes MDF2, MSK12); FNRB, MDF2, MSK12; integrin beta-1; CD29; GPIIA; integrin VLA-4 beta subunit; very late activation protein, beta polypeptide; FNRB; MDF2; VLAB; MSK12; VLA-BETA;

**Gene ID** [3688](#)

**mRNA Refseq** [NM\\_002211](#)

**Protein Refseq** [NP\\_002202](#)

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<b>MIM</b>	135630
<b>UniProt ID</b>	P05556
<b>Chromosome Location</b>	10p11.2
<b>Pathway</b>	Adaptive Immune System, organism-specific biosystem; Angiopoietin receptor Tie2-mediated signaling, organism-specific biosystem; Arf6 trafficking events, organism-specific biosystem; Arrhythmogenic right ventricular cardiomyopathy (ARVC), organism-specific biosystem; Arrhythmogenic right ventricular cardiomyopathy (ARVC), conserved biosystem; Axon guidance, organism-specific biosystem; Axon guidance, conserved biosystem;
<b>Function</b>	actin binding; alpha-actinin binding; collagen binding; fibronectin binding; glycoprotein binding; integrin binding; laminin binding; peptide binding; protease binding; protein binding; protein domain specific binding; protein heterodimerization activity;

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