

Recombinant human ITGB1, His-tagged

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

SPECIFICATION

Product Overview	Recombinant human ITGB1 protein, fused to His-tag at N-terminus, was expressed in E.coli.
Species	Human
Source	E.coli
Description	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.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.4M Urea, 10% glycerol
Molecular Mass	51.2kDa (462aa)
AA Sequence	MGSSHHHHHH SSGLVPRGSH MQTDENRCLK ANAKSCGECI QAGPNCGWCT NSTFLQEGMP TSARCDDLEA LKKKGCPPDD IENPRGSKDI KKNKNVTNRS KGTAEKLPKE DITQIQPQQL VLRLRSGEPQ TFTLKFKRAE DYPIDLYYLM DLSYSMKDDL ENVKSLGTDL MNEMRRITSD FRIGFGSFVE KTVMPYISTT PAKL RNPCTS EQNCTSPFSY KNVLSLTNKG EVFNELVGKQ RISGNLDSPE GGFDAIMQVA VCGSLIGWRN VTRLLVFSTD AGFHFAGDGK LGGIVLPNDG

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

QCHLENNMYT MSHYYDYPSI AHLVQKLSN NIQTIFAVTE EFQPVYKELK
 NLIPKSAVGT LSANSSNVIQ LIIDAYNSLS SEVILENGKL SEGVTSYKS
 YCKNGVNGTG ENGRKCSNIS IGDEVQFEIS ITSNNKCPKSD SDSFKIRPLG
 FTEEVEVILQ 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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MIM	135630
UniProt ID	P05556
Chromosome Location	10p11.2
Pathway	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;
Function	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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