

Recombinant Human ITGB1 protein

Cat. No. ITGB1-26860TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ITGB1 was expressed in Wheat Germ.
Species	Human
Source	Wheat Germ
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	25 mM Tris-HCl of pH8.0 containing 2% glycerol.
Molecular Mass	88.4 kDa
AA Sequence	MNLQPIFWIGLISSVCCVFAQTDENRCLKANAKSCGECIQAGPNCGWCTNSTFLQE GMPTSARCDDLEALKKKKGC PPDDIENPRGSKDIKKNKNVTNRSKGTAEKLPEDIT QIQPQQVLVRLRSGEPQFTTLKFKRAEDYPIDLYYLM LSYSMKDDLENVKSLGTDL MNEMRRITSDFRIGFGSFVEKTVMPYISTTPAKLRNPCTSEQNCTSPFSYKNVLSL T NKGEVFNELVGKQRISGNLDSPEGGFDAIMQVAVCGSLIGWRNVTRLLVFSTDAGF HFAGDGKLGIVLPNDGQ CHLENNMYTMSHYDYPSIAHLVQKLSENNIQTIFAVTE EFQPVYKELKNLIPKSAVGTLSANSSNVIQLIIDAY NSLSSEVILENGKLSSEGVTISYKS

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YCKNGVNGTGENGRKCSNISIGDEVQFEISITSNKCPKKDSDFSFKIRPLGF TEEVEVI
 LQYICECECQSEGIPESEPKCHEGNGTFECGACRCNEGRVGRHCECSTDEVNSED
 DAYCRKENSSEIC SNNGECVCGQCVCRCRKRDNNTNEIYSGKFCECDNFNCDRSNGLI
 CGGNGVCKCRVCECNPNYTGSACDCSLDTSTCE ASNGQICNGRGICECGVCKCT
 DPKFQQQTCEMCQTCLGVCAEHKECVQCRAFNGKGEKKTCTQECSYFNITKVES R
 DKLPQPVPQDPVSHCKEKDVDDCWYFTYSVNGNNEVMVHVVENPECPTGPDIIPI
 VAGVVAGIVLIGLALLLI WKLLMIIHDRREFAKFEKEKMNAKWDTGENPIYKSAVTTVV
 NPKYEGK

Applications

Antibody Production; Functional Study: Recommended usage only, not validated yet;
 Compound Screening: Recommended usage only, not validated yet.

Notes

Heating may cause protein aggregation. Please do not heat this product before
 electrophoresis. Best use within three months from the date of receipt of this protein.

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

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

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mRNA Refseq	NM_002211
Protein Refseq	NP_002202
MIM	135630
UniProt ID	P05556
Chromosome Location	10p11.2
Pathway	Adaptive Immune System, organism-specific biosystem; Angiotensin 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; protein kinase binding; receptor activity;

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