

Product datasheet for TP315247

Integrin beta 1 (ITGB1) (NM_133376) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human integrin, beta 1 (fibronectin receptor, beta polypeptide, antigen CD29 includes MDF2, MSK12) (ITGB1), transcript variant 1E, 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC215247 protein sequence Red =Cloning site Green =Tags(s)

MNLQPIFWIGLISSVCCVFAQTDENRCLKANAKSCGECIQAGPNCGWCTNSTFLQEGMPTSARCDLEAL
 KKKGCPPDDIENPRGSKDIKKNKNVTNRSGTAEKLPEDITQIQPQLVLRRLRSGEPQTFTLKFRAED
 YPIDLYLMDLSYSMKDDLENVKS LGTDLMNEMRRITSDFRIGFGSFVEKTVMPYISTTPAKLRNPCTSE
 QNCTSPFSYKNVLSLTNKGEVFNELVGKQRISGNLDSPEGGFDAIMQVAVCGSLIGWRNVTRLLVFSTDA
 GFHFAGDGLGGIVLPNDGQCHLENNMYTMSHYDYPSIAHLVQKLENNIQTIFAVTEEFQPVYKELKN
 LIPKSAVGTLSANSSNVIQLIIDAYNSLSSEVILENGKLESGVTISYKSYCKNGVNGTGENGRKCSNISI
 GDEVQFEISITSNKCPKSDSDFKIRPLGFTEEVEVILQYICECECQSEGIPESPKCHEGNGTFECGACR
 CNEGRVGRHCECSTDEVNSEMDAYCRKENSSEICSNNGECVCGQCVCRRKRDNTNEIYSGKFCECDNFN
 C
 DRSNGLICGGNGVCKCRVCECPNYTGSACDCSLDTSTCEASNGQICNARGICECGVCKCTDPKFQGQTC
 EMCQTCLGVCAEHKECVQCRAF NKGEKDTCTQECSYFNITKVESRDKLPQVPQDPVSHCKEKDVDDC
 W
 FYFTYSVNGNNEVMVHVVENPECP TGPDIPIVAGV VAGIVLIGLALLLIWKLLMIIHDRREFAKFEKEK
 MNAKWDTGENPIYKSAVTTVVNPKYEGK

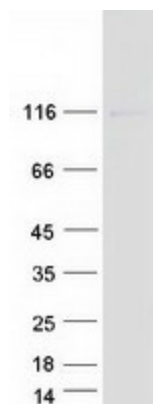
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Predicted MW:	86.1 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol



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Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_596867
Locus ID:	3688
UniProt ID:	P05556
RefSeq Size:	3794
Cytogenetics:	10p11.22
RefSeq ORF:	2394
Synonyms:	CD29; FNRB; GPIIA; MDF2; MSK12; VLA-BETA; VLAB
Summary:	<p>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. [provided by RefSeq, Jul 2008]</p>
Protein Families:	Druggable Genome, ES Cell Differentiation/IPS, Transmembrane
Protein Pathways:	Arrhythmogenic right ventricular cardiomyopathy (ARVC), Axon guidance, Cell adhesion molecules (CAMs), Dilated cardiomyopathy, ECM-receptor interaction, Focal adhesion, Hypertrophic cardiomyopathy (HCM), Leukocyte transendothelial migration, Pathogenic Escherichia coli infection, Pathways in cancer, Regulation of actin cytoskeleton, Small cell lung cancer

Product images:

Coomassie blue staining of purified ITGB1 protein (Cat# TP315247). The protein was produced from HEK293T cells transfected with ITGB1 cDNA clone (Cat# [RC215247]) using MegaTran 2.0 (Cat# [TT210002]).