

Product datasheet for TP301151L

Integrin alpha 5 (ITGA5) (NM_002205) Human Recombinant Protein

Product data:

Product Type: Recombinant Proteins
Description: Recombinant protein of human integrin, alpha 5 (fibronectin receptor, alpha polypeptide) (ITGA5), 1 mg
Species: Human
Expression Host: HEK293T
Expression cDNA Clone or AA Sequence: >RC201151 protein sequence
Red=Cloning site Green=Tags(s)

MGSRTPEsplHAVQLRWGPRRRPPLLPLLLLLPPPPRVGGFNLDAEAPAVLSGPPGSFFGFSVEFYRPG
 TDGVSVLVGAPKANTSQPGVLQGGAVYLCPWGASPTQCTPIEFDSKGSRLLESSLSSEGEPEVEYKSLQ
 WFGATVRAHGSSILACAPLYSWRTEKEPLSDPVGTCYLSTDNFRILEYAPCRSDFSWAAGQGYCQGGFS
 AEFTKTGRVVLGGPGSYFWQGGQILSATQEQIAESYPEYLINLVQGGQLQTRQASSIYDDSYLGYSVAVGE
 FSGDDTEDFVAGVPKGNLTYGYVTILNGSDIRSLYNFSGEQMASYFGYAVAATDVNGDGLDLDLLVGAPLL
 MDRTPDGRPQEVGRVYVYLQHPAGIEPTTLTLTGHDDEFGRFGSSLTPLGDLDDQDGYNDVAIGAPFGGET
 QQGWFVFPGGPGGLGSKPSQVLQPLWAASHTPDDFGSALRGGRDLDGNGYPDLIVGSFGVDKAVYRGR
 PIVSASASLTIFPAMFNPEERSCSLEGPNVACINLSFCLNASGKHVADSIGFTVELQLDWQKQKGGVRRRA
 LFLASRQATLTQTLIQNGAREDCREMKIYLRNESEFRDKLSPIHIALNFSLDPQAPVDSHGLRPAHYQ
 SKSRIEDKAQILLDCGEDNICVPDLQLEVFGEQNHVYLGDKNALNLTFAHQNVGEGGAYEAELRVTPAPE
 AEYSGLVRHPGNFSSLSCDYFAVNQSRLLVCDLGNPMKAGASLWGGRLRFTVPHLRDTKKTIQDFQILSK
 NLNNSQSDVVSFRLSVEAQAQVTLNGVSKPEAVLFPVSDWHPRDQPQKEEDLGPVHHVYELINQGPSSI
 SQGVLELSCPQALEGQQLLYVTRVTGLNCTTNHPINPKGLELDPEGSLHHQKREAPSRSSASSGPQILK
 CPEAECFRLRCELGPLHQQESQSLQLHFRVWAKTFLQREHQPFSLQCEAVYKALKMPYRILPRQLPQKER
 QVATAVQWTKAEGSYGVPLWIIILAILFGLLLLGLLIYLYKLGFFKRSLPYGTAMEKAQLKPPATSDA

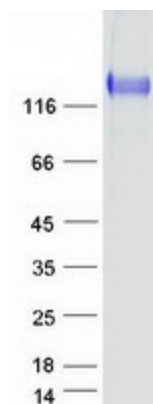
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag: C-Myc/DDK
Predicted MW: 110 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_002196
Locus ID:	3678
UniProt ID:	P08648 , B2R627
RefSeq Size:	4267
Cytogenetics:	12q13.13
RefSeq ORF:	3147
Synonyms:	CD49e; FNRA; VLA-5; VLA5A
Summary:	The product of this gene belongs to the integrin alpha chain family. Integrins are heterodimeric integral membrane proteins composed of an alpha subunit and a beta subunit that function in cell surface adhesion and signaling. The encoded preproprotein is proteolytically processed to generate light and heavy chains that comprise the alpha 5 subunit. This subunit associates with the beta 1 subunit to form a fibronectin receptor. This integrin may promote tumor invasion, and higher expression of this gene may be correlated with shorter survival time in lung cancer patients. Note that the integrin alpha 5 and integrin alpha V subunits are encoded by distinct genes. [provided by RefSeq, Oct 2015]
Protein Families:	Druggable Genome, ES Cell Differentiation/IPS, Transmembrane
Protein Pathways:	Arrhythmogenic right ventricular cardiomyopathy (ARVC), Dilated cardiomyopathy, ECM-receptor interaction, Focal adhesion, Hematopoietic cell lineage, Hypertrophic cardiomyopathy (HCM), Regulation of actin cytoskeleton

Product images:

Coomassie blue staining of purified ITGA5 protein (Cat# [TP301151]). The protein was produced from HEK293T cells transfected with ITGA5 cDNA clone (Cat# [RC201151]) using MegaTran 2.0 (Cat# [TT210002]).