

Product datasheet for TP301151

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), 20 µg |
| Species: | Human |
| Expression Host: | HEK293T |
| Expression cDNA Clone or AA Sequence: | >RC201151 protein sequence Red =Cloning site Green =Tags(s) |

MGSRTPEsplHAVQLRWGPRRRPPLPLLLLLPPPPRVGGFNLDaEAPAVLSGPPGSFFGFsVEFYRPG
TDGVSVLVGAPKANTSQPGVLQGGAVYLCPWGASPTQCTPIEFDSKGSRLLESLSSEGEePVEYKSLQ
WFGATVRAHGSSILACAPLYSWRTEKEPLSDPVGTCYLSTDNFTRILEYAPCRSDFSWAAGQGYCQGGFS
AEFTKTGRVVLGGPGSYFWQGQILSATQEQAESYYPEYLINLVQGGQLQTRQASSIYDdSYLGYSVAVGE
FSGDDTEdFVAGVPGKNLTyGYVTILNGSDIRSLYNFSGEQMASYFGYAVAATDVNGDGLDdLLVGAPLL
MDRTPDGRPQEVGRVYVYLQHPAGIEPTPTLTLTGHDEFGRFGSSLTPLGDLDQDGYNDVAIGAPFGGET
QQGVVVFVPGGPGGLGSKPSQVLQPLWAASHTPDDFFGSALRGGRDLDGNGYPDLIVGSFGVDKAVVYRG
R
PIVSASASLTIFPAMFNPEERSCSLEGNPVACINLSFCLNASGKHVADSIGFTVELQLDWQKQKGGVRRRA
LFLASRQATLTQTLIIQNGAREDCREMKIYLRNESEFRDKLSPIHIALNFSLDPQAPVDShGLRPALHYQ
SKSRIEDKAQILLDCGEDNICVPDLQLEVFGEQNHVYLGDKNALNLTfHAQNVGEGGAYEAELRVtAPPE
AEYSGLVrHPGNFSSLSCDYFAVNQSRLLVCDLGNPMKAGASLWGLRFTVPHLRDtkktiQFDfQILSK
NLNNSQSDVVSFRLSVEAQAQVTLNGVSKPEAVLFPVSDWHPRDQPQKEEDLGPavHHVYELINQGPSS
I
SQGVLELSCPQALEGQQLLYVTRVTGLNCTTNHPINPKGLELDPEGSLHHQKREAPSRSSASSGPQILK
CPEAEcFRLRCELGPLHQQESQSLQLHFRVWAKTFLQREHQPFSLQCEAVYKALKMPYRILRPQLPQKER
QVATAVQWTKAEGSYGVPLWIIILAILFGLLLGLLIYILYKLGFFKRSLPYGTAMEKAQLKPPATSDA

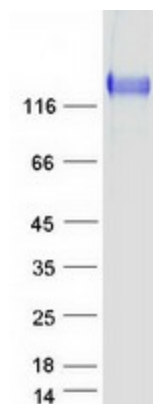
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

| | |
|----------------|---|
| 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 |



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| | |
|--------------------------|--|
| Buffer: | 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol |
| 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 |
| 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]).