

Product datasheet for TP321297M

CD11a (ITGAL) (NM_002209) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human integrin, alpha L (antigen CD11A (p180), lymphocyte function-associated antigen 1; alpha polypeptide) (ITGAL), transcript variant 1, 100 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC221297 representing NM_002209 Red=Cloning site Green=Tags(s)

MKDSCITVMAMALLSGFFFFAPASSYNLDVRGARSFSPPRAGRHFYRVLQVGNQVIVGAPGEGNSTGSL
YQCQSGTGHCPLVTLRGSNYTSKYLGMTLATDPTDGSILACDPGLSRTCDQNTYLSGLCYLFRQNLQGM
LQGRPGFQECIKGNVDLVFLFDGMSLQPDQKILDFMKDVMKKLSNTSYQFAAVQFSTSYKTEFDFSD
YVKKRDPDALLKHVKHMLLLTNTFGAINYVATEVFREELGARPDATKVLIIITDGEATDSGNIDAADKII
RYIIGIGKHFQTKESQETLHKFASKPASEFVKILDTFEKLKDLFTELQKKIYVIEGTSKQDLTSFNMELS
SSGISADLSRGHAVVGAVGAKDWAGGFLDLKADLQDDTFIGNEPLTPEVRAGYLGTYVTWLPQRKTSLL
ASGAPRYQHMGRVLLFQEPQGGGHWSQVQTIHGTQIGSYFGGELCGVDVDQDGETELLIGAPLFYGEQR
GGRVFIYQRRQLGFEEVSELQGDPGYPLGRFGEAITALTDINGDGLVDVAVGAPLEEQGAUVIFNGRHGG
LSPQPSQRIEGTQVLSGIQWFGRSIHGVKDLEGDGLADVAVGAESQMIVLSSRPVDMVTLMSFSPAIEP
VHEVECSYSTSNMKKEGVNITICFQIKSLIPQFQGRVLNLTYYTLQLDGHRTRRRRGLFPGGRHELRRNIA
VTTSMCTDFSHPVVCVQDLISPINVSLNFSLWEEEGTPRDQRAQKDIPIPLRPSLHSETWEIPFEKN
CGEDKKCEANLRVSFSPARSRALRLTAFASLSVELSLSNLEEDAYWVQLDLHFPPGLSFRKVEMLKPHSQ
IPVSCEELPEESRLLSRALSCNVSSPIFKAGHSVALQMMFNLTVNSSWGDSVELHANVTCNNEEDSDLLED
NSATTIIPILYPINILIQDQEDSTLYVSFTPKGPKIHQVKHMYQVRIQPSIHDHNIPTLEAVVGVPQPPS
EGPITHQWSVQMEPPVPCHEYEDLERLPDAAECLPGALFRCPVFRQEILVQVIGTLELVGEIEASSMFS
LCSSLSISFNSSKHFFHLYGSNASLAQVVMKVDVWYEQMLYLVLSGIGGLLLLLLIFIVLYKVGFFKRN
LKEKMEAGRGPNGIPAEDSEQLASGQEAGDPGCLKPLHEKDSSESGGGKD

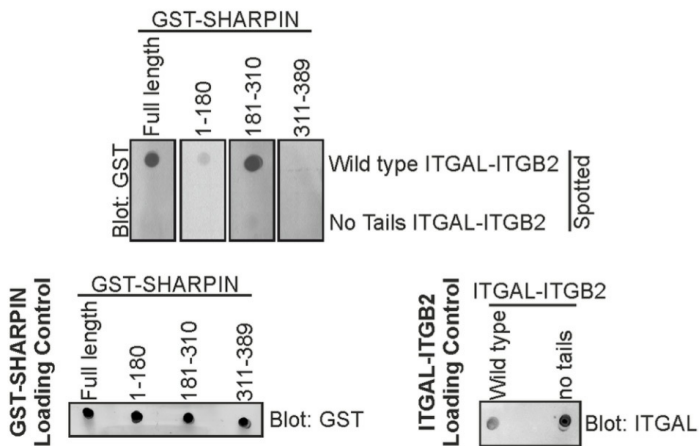
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Predicted MW:	126.1 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining

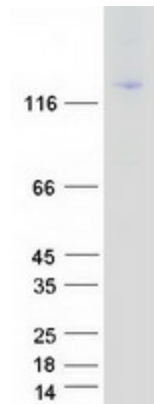


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Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Bioactivity:	Far-Western blot (PMID: 26600301)
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing 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_002200
Locus ID:	3683
UniProt ID:	P20701 , B2RAL6
RefSeq Size:	5133
Cytogenetics:	16p11.2
RefSeq ORF:	3510
Synonyms:	CD11A; LFA-1; LFA1A
Summary:	ITGAL encodes the integrin alpha L chain. Integrins are heterodimeric integral membrane proteins composed of an alpha chain and a beta chain. This I-domain containing alpha integrin combines with the beta 2 chain (ITGB2) to form the integrin lymphocyte function-associated antigen-1 (LFA-1), which is expressed on all leukocytes. LFA-1 plays a central role in leukocyte intercellular adhesion through interactions with its ligands, ICAMs 1-3 (intercellular adhesion molecules 1 through 3), and also functions in lymphocyte costimulatory signaling. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]
Protein Families:	Druggable Genome, ES Cell Differentiation/IPS, Transmembrane
Protein Pathways:	Cell adhesion molecules (CAMs), Leukocyte transendothelial migration, Natural killer cell mediated cytotoxicity, Regulation of actin cytoskeleton, Viral myocarditis

Product images:


The UBL domain (181-310) of SHARPIN mediates its binding to cytoplasmic tails of integrin, as analyzed by Far-Western of GST-SHARPIN (full-length or fragments) binding to full-length ITGAL-ITGB2 (OriGene [TP321297] and [TP326157]) or ITGAL-ITGB2 lacking both cytoplasmic tails. Loading controls for GST-SHARPIN (full-length or fragments) and both ITGAL-ITGB2s are shown. Figure cited from PLoS ONE, PMID: 26600301



Coomassie blue staining of purified ITGAL protein (Cat# [TP321297]). The protein was produced from HEK293T cells transfected with ITGAL cDNA clone (Cat# [RC221297]) using MegaTran 2.0 (Cat# [TT210002]).