

Active Recombinant Full Length Human ITGAL Protein, C-Flag-tagged

Cat. No. ITGAL-168HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human ITGAL Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	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.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Bio-activity	Far-Western blot
Molecular Mass	126.1 kDa
AA Sequence	MKDSCITVMAMALLSGFFFFAPASSYNLDVRGARSFSPPRAGRHFGRVQLQVGNGV IVGAPGEGNSTGSL YQCQSGTGHCLPVTLRGSNYTSKYLGMTLATDPTDGSILACD

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PGLSRTCDQNTYLSGLCYLFRQNLQGPM LQGRPGFQECIKGNVDLVFLFDGSMSL
 QPDEFQKILDFMKDVMKKLSNTSYQFAAVQFSTSYKTEFDFSD YVKRKDPDALLKH
 VKHMLLLTNTFGAINYVATEVFREELGARPDATKVLIIITDGEATDSGNIDAAKDII RYII
 GIGKHFQTKESQETLHKFASKPASEFVKILDTFEKLDLFTTELQKKIYVIEGTSKQDLT
 SFNMELS SSGISADLSRGHAVVGAVGAKDWAGGFLLDKADLQDDTFIGNEPLTPEV
 RAGYLGTYVTWLPSRQKTSLL ASGAPRYQHMGRVLLFQEPQGGGHWSQVQTIHG
 TQIGSYFGGELCGVDVDQDGETELLIGAPLFYGEQR GGRVFIYQRRQLGFEEVSE
 LQGDPGYPLGRFGEAITALTDINGDGLVDVAVGAPLEEQGAUYIFNGRHGG LSPQP
 SQRIEGTQVLSGIQWFGRSIHGVKDLEGDGLADVAVGAESQMIVLSSRPVDMVTL
 MSFSPAEIP VHEVECSYSTSNKMKEGVNITICFQIKSLIPQFQGRLVANLTYTLQLDG
 HRTRRRGLFPGGRHELRRNIA VTTSMSCTDFS FHPVCVQDLISPINVS LNFS LWEE
 EGTPRDQRAQGKDIPPILRPSLHSETWEIPFEKN CGEDKKCEANLRVSFSPARSRA
 LRLTAFASLSVELSLSNLEEDAYWVQLDLHFPPGLSFRKVEMLKPHSQ IPVSCEELP
 EESRLLSRALSCNVSSPIFKAGHSVALQMMFNTLVNSSWGDSVELHANVTCNNEDS
 DLLED NSATTIIPILYPINILIQDQEDSTLYVSFTPKGPKIHQVKHMYQVRIQPSIHDHNI
 PTLEAVVGVPQPPS EGPITHQWSVQMEPPVPCHYEDLERLPDAAEPCLPGALFRC
 PVVFRQEILVQVIGTLELVGEIEASSMFS LCSSLSISFNSSKHFFHLYGSNASLAQVVM
 KVDVVEKQMLYLYVLSGIGGLLLLLLLIFIVLYKVGFFKRN
 LKEKMEAGRGVPNGIPAEDSEQLASGQEAGDPGCLKPLHEKDSESGGGKDTRTRP
 LEQKLISEEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.

Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
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
Full Length	Full L.

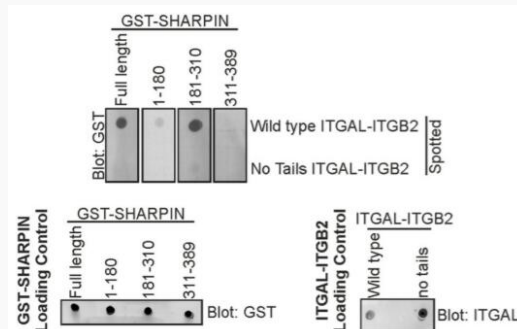
GENE INFORMATION

Gene Name	ITGAL integrin subunit alpha L [Homo sapiens (human)]
Official Symbol	ITGAL
Synonyms	CD11A; LFA-1; LFA1A
Gene ID	3683
mRNA Refseq	NM_002209.3
Protein Refseq	NP_002200.2
MIM	153370
UniProt ID	P20701

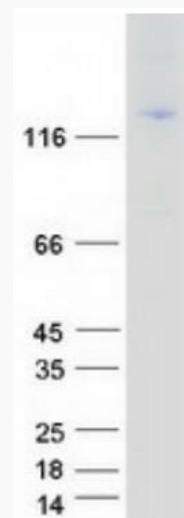
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The UBL domain (181-310) of SHARPIN mediates its binding to cytoplasmic tails of integrin, as analyzed by Far-Western of GST-SHARPIN (fulllength or fragments) binding to full-length ITGA2ITGB2 or ITGA2-ITGB2 lacking both cytoplasmic tails. Loading controls for GST-SHARPIN (full-length or fragments) and both ITGA2-ITGB2s are shown.



Coomassie blue staining of purified ITGA2 protein.