

Recombinant Human ITGAL Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. ITGAL-2092H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	ITGAL MS Standard C13 and N15-labeled recombinant protein (NP_002200) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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.
Molecular Mass	128.77 kDa
AA Sequence	MKDSCITVMAMALLSGFFFFAPASSYNLDVRGARSFSPPRAGRHFYRVLQVGNGV IVGAPGEGNSTGSLYQCQSGTGHCLPVTLRGSNYTSKYLGMTLATDPTDGSILACD PGLSRTCDQNTYLSGLCYLFRQNLQGPMLQGRPGFQECIKGNVDLVFLFDGSM SLQPDEFQKILDFMKDVMKKLSNTSYQFAAVQFSTSYKTEFDFSDYVVKRKDPDALLKHV KHMLLLTNTFGAINYVATEVFREELGARPDATKVLIIITDGEATDSGNIDAAKDIIRYIIGI

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GKHFQTKESQETLHKFASKPASEFVKILDTFEKLKDLFTELQKKIYVIEGTSKQDLTSF
 NMELSSSGISADLSRGHAVVGAVGAKDWAGGFLDLKADLQDDTFIGNEPLTPEVRA
 GYLGTVTWLPSRQKTSLLASGAPRYQHMGRVLLFQEPQGGGHWSQVQTIHGTQI
 GSYFGGELCGVDVDQDGETELLIGAPLFYGEQRGGRVFIYQRRQLGFEEVSELQG
 DPGYPLGRFGEAITALTDINGDGLVDVAVGAPLEEQGAUYIFNGRHGGLSPQPSQRI
 EGTQVLSGIQWFGRSIVKDLLEGDGLADVAVGAESQMIVLSSRPVVDMLTMSFS
 PAEIPVHEVECSYSTSNKMKEGVNITICFQIKSLIPQFQGRLVANLTYTLQLDGHRT
 RRGLFPGGRHELRRNIAVTTSMSCTDFSHPVVCVQDLISPINVSLSLWEEEGTP
 RDQRAQGGKIPILRPSLHSETWEIPFEKNCGEDKKCEANLRVSFSPARSRALRLTA
 FASLSVELSLSNLEEDAYWVQLDLHFPPLSFRKVEMLKPHSQIPVSCEELPEESRL
 LSRALSCNVSSPIFKAGHSVALQMMFNTLVNSSWGDSVELHANVTCNNEDSDLLED
 NSATTIIPILYPINILIQDQEDSTLYVSFTPKGPKIHQVKHMYQVRIQPSIHDHNIPTLEA
 VVGVPQPPSEGPITHQWSVQMEPPVPCHYEDLERLPDAAEPCLPGALFRCPVFR
 QEILVQVIGTLELVGEIEASSMFLCSSLSISFNSSKHFHLYGSNASLAQVVMKVDVV
 YEKQMLYLYVLSGIGGLLLLLLIFIVLYKVGFFKRNLKEKMEAGRGPNGIPAEDSEQL
 ASGQEAGDPGCLKPLHEKDESEGGGKDTRTRPLEQKLISEEDLAANDILDYKDDDD
 KV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name	ITGAL integrin subunit alpha L [Homo sapiens (human)]
Official Symbol	ITGAL
Synonyms	ITGAL; integrin, alpha L (antigen CD11A (p180), lymphocyte function-associated antigen 1; alpha polypeptide); CD11A; integrin alpha-L; LFA 1; LFA-1A; LFA-1 alpha; integrin gene promoter; CD11 antigen-like family member A; lymphocyte function-associated antigen 1; leukocyte adhesion glycoprotein LFA-1 alpha chain; leukocyte function-associated molecule 1 alpha chain; antigen CD11A (p180), lymphocyte function-associated antigen 1, alpha polypeptide; LFA-1; LFA1A;
Gene ID	3683
mRNA Refseq	NM_002209
Protein Refseq	NP_002200
MIM	153370
UniProt ID	P20701
SDS-PAGE	

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