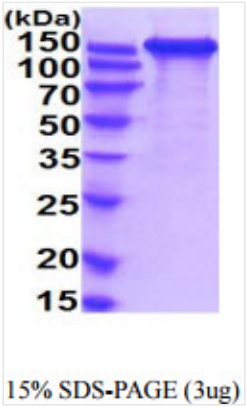
L1CAM Baculovirus Recombinant Protein

PRODUCT OVERVIEW

Product Name	L1CAM, Recombinant Protein
Full Product Name	L1CAM, 20-1115aa, Human, His-tag, Baculovirus
Product Gene Name	L1CAM recombinant protein
Product Synonym Names	Neural cell adhesion molecule L1 isoform 3; L1CAM; CAML1; CD171; HSAS; HSAS1; MASA; MIC5; N-CAM-L1; N-CAML1; NCAM-L1; S10; SPG1
Sequence	IQIPEELMEP PVITEQSPRR LVVFPTDDIS LKCEASGKPE VQFRWTRDGV HFKPKEELGV TVYQSPHSGS FTITGNNSNF AQRFQGIYRC FASNKLGTAM SHEIRLMAEG APKWPKETVK PVEVEEGESV VLPCNPPPSA EPLRIYWMNS KILHIKQDER VTMGQNGNLY FANVLTSDNH SDYICHAHFP GTRTIIQKEP IDLRVKATNS MIDRKPRLLF PTNSSSHLVA LQGQPLVLEC IAEGFPTPTI KWLRPSGPMP ADRVTYQNHN KTLQLLKVGE EDDGEYRCLA ENSLGSARHA YYVTVEAAPY WLHKPQSHLY GPGETARLDC QVQGRPQPEV TWRINGIPVE ELAKDQKYRI QRGALILSNV QPSDTMVTQC EARNRHGLLL ANAYIYVVQL PAKILTADNQ TYMAVQGSTA YLLCKAFGAP VPSVQWLDED GTTVLQDERF FPYANGTLGI RDLQANDTGR YFCLAANDQN NVTIMANLKV KDATQITQGP RSTIEKKGSR VTFTCQASFD PSLQPSITWR GDGRDLQELG DSDKYFIEDG RLVIHSLDYS DQGNYSCVAS TELDVVESRA QLLVVGSPGP VPRLVLSDLH LLTQSQVRVS WSPAEDHNAP IEKYDIEFED KEMAPEKWYS LGKVPGNQTS TTLKLSPYVH YTFRVTAINK YGPGEPSPVS ETVVTPEAAP EKNPVDVKGE GNETTNMVIT WKPLRWMDWN APQVQYRVQW RPQGTRGPWQ EQIVSDPFLV VSNTSTFVPY EIKVQAVNSQ GKGPEPQVTI GYSGEDYPQA IPELEGIEIL NSSAVLVKWR PVDLAQVKGH LRGYNVTYWR EGSQRKHSKR HIHKDHVVVP ANTTSVILSG LRPYSSYHLE VQAFNGRGSG PASEFTFSTP EGVPGHPEAL HLECQSNTSL LLRWQPPLSH NGVLTGYVLS YHPLDEGGKG QLSFNLRDPE LRTHNLTDLS PHLRYRFQLQ ATTKEGPGEA IVREGGTMAL SGISDFGNIS ATAGENYSVV SWVPKEGQCN FRFHILFKAL GEEKGGASLS PQYVSYNQSS YTQWDLQPDT DYEIHLFKER MFRHQMAVKT NGTGRVRLPP AGFATELEHH HHHH
Host	Baculovirus
Form/Format	Liquid. In phosphate buffered saline (pH 7.4) containing 10% glycerol.
Purity/Purification	> 90% by SDS-PAGE
Concentration	0.25mg/ml (determined by Absorbance at 280nm) (lot specific)
Preparation and Storage	Can be stored at 4 degree C short term (1-2 weeks). For long term storage, aliquot and store at -20 degree C or -70 degree C. Avoid repeated freezing and thawing cycles.
Molecular Weight	123.6kDa (1104aa) 100-150kDa (SDS-PAGE under reducing conditions)
OMIM	X59847 mRNA
3D Structure	ModBase 3D Structure for P32004
Antigen Species	Human
Tag Information	His-tag
Endotoxin Level	< 1.0 EU per 1ug of protein (determined by LAL method)
Product Categories/Family for L1CAM recombinant protein	Signal Transduction; Hormones & Cytokines; Adhesion & Movement
Applications Tested/Suitable for L1CAM recombinant protein	SDS-PAGE

Related Product Information for L1CAM recombinant protein	L1CAM, also known as neural cell adhesion molecule L1 isoform 3, is a cell adhesion receptor of the immunoglobulin superfamily, known for its roles in nerve cell function. It is now recognized to play a key role in cell migration, adhesion, neurite outgrowth, myelination and neuronal differentiation Overexpression of L1CAM in normal and cancer cells increased motility, enhanced growth rate and promoted cell transformation and tumorigenicity. Recombinant human L1CAM, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.
Product References and Citations for L1CAM recombinant protein	Maness, P.F., et al. (2007) Nat. Neurosci. 10:19-26.; Gavert, N., et al. (2008) Expert Opin Biol Ther. 8 (11):1749-57.
Other Notes	Small volumes of L1CAM recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for L1CAM purchase	MBS206668 is a recombinant protein targeting L1CAM. Also known as L1CAM, 20-1115aa, Human, His-tag, Baculovirus. Host: Baculovirus.



SDS-Page of L1CAM recombinant protein

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for L1CAM. It may not necessarily be applicable to this product.

NCBI GI #	221316760
NCBI GeneID	3897
NCBI Accession #	NP_001137435
UniProt Primary Accession #	P32004
UniProt Secondary Accession #	Q8TA87; A0AV65; A4ZYW4; B2RMU7; G3XAF4
UniProt Related Accession #	P32004
GenBank Nucleotide #	NM_001143963.2
NCBI Official Full Name	neural cell adhesion molecule L1 isoform 3
NCBI Official Synonym Full Names	L1 cell adhesion molecule
NCBI Official Symbol	L1CAM
NCBI Official Synonym Symbols	S10; HSAS; MASA; MIC5; SPG1; CAML1; CD171; HSAS1; N-CAML1; NCAM-L1; N-CAM-L1
UniProt Protein Name	Neural cell adhesion molecule L1
UniProt Synonym Protein Names	CD_antigen: CD171
Protein Family	Neural cell adhesion molecule
UniProt Gene Name	L1CAM

UniProt Synonym Gene Names	CAML1; MIC5; N-CAM-L1; NCAM-L1
NCBI Protein Information	neural cell adhesion molecule L1
NCBI Summary for L1CAM	The protein encoded by this gene is an axonal glycoprotein belonging to the immunoglobulin supergene family. The ectodomain, consisting of several immunoglobulin-like domains and fibronectin-like repeats (type III), is linked via a single transmembrane sequence to a conserved cytoplasmic domain. This cell adhesion molecule plays an important role in nervous system development, including neuronal migration and differentiation. Mutations in the gene cause X-linked neurological syndromes known as CRASH (corpus callosum hypoplasia, retardation, aphasia, spastic paraplegia and hydrocephalus). Alternative splicing of this gene results in multiple transcript variants, some of which include an alternate exon that is considered to be specific to neurons. [provided by RefSeq, May 2013]
UniProt Comments for L1CAM	Neural cell adhesion molecule involved in the dynamics of cell adhesion and in the generation of transmembrane signals at tyrosine kinase receptors. During brain development, critical in multiple processes, including neuronal migration, axonal growth and fasciculation, and synaptogenesis. In the mature brain, plays a role in the dynamics of neuronal structure and function, including synaptic plasticity.
Research Articles on L1CAM	**1.** Our preclinical assessment of the CE7 epitope on CD171 supports its utility and safety as a CAR T-cell target for neuroblastoma immunotherapy
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