

Active Recombinant Human L1CAM protein, His-tagged

Cat. No. L1CAM-02H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human L1CAM, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.
Species	Human
Source	Insect Cells
ProteinLength	20-1115
Description	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.
Form	Liquid
Bio-activity	Measured by the ability of the immobilized protein to support the adhesion of Neuro-2a mouse neuroblastoma cells. When cells are added to human L1CAM coated plates 1

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µg/mL. This effect is more to 30 %.

Molecular Mass 123.6 kDa (1104aa)

AA Sequence

IQIPEELMEPPVITEQSPRRLVVFPTDDISLKCEASGKPEVQFRWTRDGVHFKPKEEL
 GVTVYQSPHSGSFTITGNNSNFAQRFQGIYRCFASNKLGTAMSHEIRLMAEGAPKW
 PKETVKPVEVEEGESVVLPCNPPPSAEPLRIYWMNSKILHIKQDERVTMGQNGNLYF
 ANVLTSDNHSDYICHAHFPGTRTIIQKEPIDLRVKATNSMIDRKPRLLFPTNSSSHLVA
 LQGQPLVLECIAEGFPTPTIKWLRPSGPMPADRVTYQNHNKTLQLLKVGEEDDGEY
 RCLAENSLGSARHAYYVTVEAAPYWLHKPQSHLYGPGETARLDCQVQGRPQPEVT
 WRINGIPVEELAKDQKYRIQRGALILSNVQPSDTMVTQCEARNRHGLLLANAYIYVVQ
 LPAKILTADNQTYMAVQGSTAYLLCKAFGAPVPSVQWLDDEDGTTVLQDERFFPYAN
 GTLGIRDLQANDTGRYFCLAANDQNNVTIMANLKVKDATQITQGPRSTIEKKGSRVT
 FTCQASFDPSLQPSITWRGDGRDLQELGDSDDKYFIEDGRLVIHSLDYSDQGNYSVCV
 ASTELDVVESRAQLLVGSPGPVRLVLSDLHLLTQSQVRVSWSPAEDHNAPIEKYD
 IEFEDKEMAPEKWYSLGKVPGNQTSTTLKLSPIVHYTFRVTAINKYGPGEPSPVSET
 VVTPEAAPEKNPVDVKGEGNETTNMVITWKPLRWMDWNAPQVQYRVQWRPQGTR
 GPWQEIVSDPFLVVSNTSTFVPYEIKVQAVNSQGKGPEPQVTIGYSGEDYPQAIPE
 LEGIEILNSSAVLVKWRPVDLAQVKGHLRGYNVTYWREGSQRKHSKRHIHKDHVVV
 PANTTSVILSGLRPYSSYHLEVQAFNGRSGPASEFTFSTPEGVPGHPEALHLECQS
 NTSLLLRLWQPPLSHNGVLTGYVLSYHPLDEGGKGQLSFNLRDPELRTHNLTDLSPH
 LRYRFQLQATTKEGPGEAIVREGGTMALSGISDFGNISATAGENYSVVSWVPKEGQ
 CNFRFHILFKALGEEKGGASLSPQYVSYNQSSYTQWDLQPDTDYEIHLFKERMFRH
 QMAVKTNGTGRVRLPPAGFATE

Endotoxin < 1 EU/µg of protein (determined by LAL method)

Purity > 90 % by SDS-PAGE

Applications SDS-PAGE, Bioactivity

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Storage	Can be stored at +2 to +8 centigrade for 1 week. For long term storage, aliquot and store at -20 to -80 centigrade. Avoid repeated freezing and thawing cycles.
Concentration	0.25 mg/mL
Storage Buffer	PBS (pH 7.4) containing 10% glycerol

GENE INFORMATION

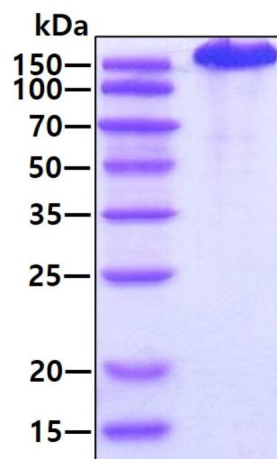
Gene Name	L1CAM L1 cell adhesion molecule [Homo sapiens (human)]
Official Symbol	L1CAM
Synonyms	L1CAM; L1 cell adhesion molecule; S10; HSAS; MASA; MIC5; SPG1; CAML1; CD171; HSAS1; N-CAML1; NCAM-L1; N-CAM-L1; neural cell adhesion molecule L1; antigen identified by monoclonal antibody R1
Gene ID	3897
mRNA Refseq	NM_001143963
Protein Refseq	NP_001137435
MIM	308840
UniProt ID	P32004

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SDS-PAGE



3 μ g by SDS-PAGE under reducing condition and visualized by coomassie blue stain

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