

Recombinant Full Length Human L1CAM Protein, C-Flag-tagged

Cat. No. L1CAM-553HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human L1CAM Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	137.8 kDa
AA Sequence	MVVALRYVWPLLLCSPCLLIQIPEEYEGHHVMEPPVITEQSPRRLVVFPTDDISLKCE ASGKPEVQFRWT RDGVHFKPKEELGVTVYQSPHSGSFTITGNNSNFAQRFQGIYR

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CFASNKLGTAMSHEIRLMAEGAPKWPK ETVKPVEVEEGESVVLPCNPPPSAEPLRI
 YWMNSKILHIKQDERVTMGQNGNLYFANVLTSDNHSDYICH AHFPGTRTIIQKEPIDL
 RVKATNSMIDRKPRLLFPTNSSSHLVALQGQPLVLECIAEGFPTPTIKWLRPS GPMP
 ADRVTYQNHNKTLLKLVGEEDDGEYRCLAENSLGSARHAYYVTVEAAPYWLHKP
 QSHLYGPGETA RLDCQVQGRPQPEVTWRINGIPVEELAKDQKYRIQRGALILSNVQ
 PSDTMVTQCEARNRHGLLL ANAYIY VVQLPAKILTADNQTYMAVQGSTAYLLCKAF
 GAPVPSVQWLDEDGTTVLQDERFFPYANGTLGIRDLQAN DTGRYFCLAANDQNNV
 TIMANLKVKDATQITQGPRSTIEKKGSRVTFTCQASFDPSLQPSITWRGDGRDL QEL
 GDSDKYFIEDGRLVIHSLDYSDQGNYSVASTELDVVESRAQLLVGSPGPVPRVLV
 SDLHLLTQSQ VRVSWSPAEDHNAPIEKYDIEFEDKEMAPEKWYSLGKVPGNQTSTT
 LKLSPYVHYTFRVTAINKYGPGE SPVSETVVTPEAAPEKNPVDVKGEGNETTNMVI
 TWKPLRWMDWNAPQVQYRVQWRPQGTRGPWQEIVSD PFLVVSNTSTFVPYEIK
 VQAVNSQKGPEPQVTIGYSGEDYPQAIPELEGIEILNSSAVLVKWRPVDLAQ VKG
 HLRGYNVTYWREGSQRKHSKRHIHKDHVVVPANTTSVILSGLRPYSSYHLEVQAFN
 GRGSGPASEFT FSTPEGVPGHPEALHLECQSNTSLLLWQPPLSHNGVLTGYVLS
 YHPLDEGGKGQLSFNLRDPELRTHNL TDLSPHLRYRFQLQATTKEGPGEAIVREGG
 TMAISGISDFGNISATAGENYSVVSWVPKEGQCNRFRHIL FKALGEEKGGASLSPQ
 YVSYNQSSYTQWDLQPDTDYEIHLFKERMFRHQMAVKNTGTGRVRLPPAGFATE G
 WFIGFVSAILLLLVLILCFIKRSKGGKYSVKDKEDTQVDSEARPMKDETFGEYRSLE
 SDNEEKAFGS SQPSLNGDIKPLGSDDSLADYGGSDVDVQFNEDGSFIGQYSGKKEK
 EAAGGNDSSGATSPINPAVALETRTRPLEQKLISEEDLAANDILDYKDDDDKV

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.

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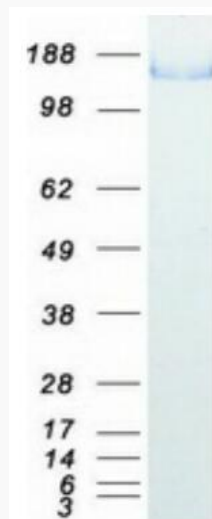
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Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome, ES Cell Differentiation/IPS, Transmembrane
Protein Pathways	Axon guidance, Cell adhesion molecules (CAMs)
Full Length	Full L.
GENE INFORMATION	
Gene Name	L1CAM L1 cell adhesion molecule [Homo sapiens (human)]
Official Symbol	L1CAM
Synonyms	S10; HSAS; MASA; MIC5; SPG1; CAML1; CD171; HSAS1; N-CAML1; NCAM-L1; N-CAM-L1
Gene ID	3897
mRNA Refseq	NM_000425.5
Protein Refseq	NP_000416.1
MIM	308840
UniProt ID	P32004

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Coomassie blue staining of purified L1CAM protein.

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