

Recombinant Human L1CAM Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. L1CAM-1276H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	L1CAM MS Standard C13 and N15-labeled recombinant protein (NP_000416) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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.
Molecular Mass	140 kDa
AA Sequence	MVVALRYVWPLLLCSPCLLIQIPEEYEGHHVMEPPVITEQSPRRLVVFPTDDISLKCE ASGKPEVQFRWTRDGVHFKPKEELGVTVYQSPHSGSFTITGNNSNFAQRFQGIYRC FASNKLGTAMSHEIRLMAEGAPKWPKETVKPVEVEEGESVVLPCNPPPSAEPLRIY

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WMNSKILHIKQDERVTMGQNGNLYFANVLTSDNHSDYICHAHFPGTRTIIQKEPIDLR
VKATNSMIDRKPRLLFPTNSSSHLVALQGQPLVLECIAEGFPTPTIKWLRPSGPMMA
DRVTYQNHNKTLQLLKVGEEDDGEYRCLAENSLGSARHAYYVTVEAAPYWLHKPQ
SHLYGPGETARLDCQVQGRPQPEVTWRINGIPVEELAKDQKYRIQRGALILSNVQPS
DTMVTQCEARNRHGLLLANAYIYVQLPAKILTADNQTYMAVQGSTAYLLCKAFGAP
VPSVQWLDEDGTTVLQDERFFPYANGTLGIRDLQANDTGRYFCLAANDQNNVTIMA
NLKVKDATQITQGPRSTIEKKGSRVTFTCQASFDPSLQPSITWRGDGRDLQELGDSD
KYFIEDGRLVIHSLDYSDQGNYSVASTELDVVESRAQLLVGSPGPVPRVLSDLH
LLTQSQVRVSWSPAEDHNAPIEKYDIEFEDKEMAPEKWYSLGKVPGNQTSTTLKLS
PYVHYTFRVTAINKYGPGEPSPVSETVVTPEAAPEKNPVDVKGEGNETTNMVITWK
PLRWMDWNAPQVQYRVQWRPQGTRGPWQEQIVSDPFLVVSNTSTFVPYEIKVQA
VNSQGKGPEPQVTIGYSGEDYPQAIPELEGIEILNSSAVLVKWRPVDLAQVKGHLRG
YNVTYWREGSQRKHSKRHIHKDHVVVPANTTSVILSGLRPYSSYHLEVQAFNGRGS
GPASEFTFSTPEGVPGHPEALHLECQSNTSLLLWQPPLSHNGVLTGYVLSYHPLD
EGGKGQLSFNLRDPELRTHNLTDLSPHLRYRFQLQATTKEGPGEAIVREGGTMALS
GISDFGNISATAGENYSVVSWVPKEGQCNRFRHILFKALGEEKGGASLSPQYVSYN
QSSYTQWDLQPDTDYEIHLFKERMFRHQMAVKTNGTGRVRLPPAGFATEGWFIGF
VSAIILLLLVLLILCFIKRSKGGKYSVKDKEDTQVDSEARPMKDETFGEYRSLESDNEE
KAFGSSQPSLNGDIKPLGSDDSLADYGGSDVQFNEDGSFIGQYSGKKEKEAAGGN
DSSGATSPINPAVALETRTRPLEQKLISEEDLAANDILDYKDDDDKV

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

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Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name L1CAM L1 cell adhesion molecule [Homo sapiens (human)]

Official Symbol L1CAM

Synonyms

L1CAM; L1 cell adhesion molecule; antigen identified by monoclonal R1, HSAS, HSAS1, MASA, MIC5, S10, SPG1; neural cell adhesion molecule L1; CD171; antigen identified by monoclonal R1; S10; HSAS; MASA; MIC5; SPG1; CAML1; HSAS1; N-CAML1; NCAM-L1; N-CAM-L1;

Gene ID 3897

mRNA Refseq NM_000425

Protein Refseq NP_000416

MIM 308840

UniProt ID P32004

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SDS-PAGE

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