

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
ASGKPEVQFRWTRDGVHFKPKEELGVTVYQSPHSGSFTITGNNSNFAQRFGGIYRC
FASNKLGTA MSHEIRLMAEGAPKWPKETVKPVEVEEGESVVLPCNPPPSAEPLRIY

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WMNSKILHIKQDERVTMGQNGNLYFANVLTSNDHSDYICHAHFPGTRTIIQKEPIDLR
VKATNSMIDRKPRLLFPTNSSHLVALQGQPLVLEICIAEGFPTPTIKWLRPSGMPMA
DRVTYQNHNKTLQLLKVGEEDDGEYRCLAENSLGSARHAYYVTVEAAPYWLHKPQ
SHLYGPGETARLDCQVQGRPQPEVTWRINGIPVEELAKDQKYRIQRGALILSNVQPS
DTMVTQCEARNRHGLLLANAYIYVVQLPAKILTADNQTYMAVQQGSTAYLLCKAFGAP
VPSVQWLDEDGTTVLQDERFFPYANGTLGIRDLQANDTGRYFCLAANDQNNVTIMA
NLKVKDATQITQGPRSTIEKKGSRVTFTQCASFDPQLQPSITWRGDGRDLQELGSDS
KYFIEDGRLVIHSLDYSDQGNYSVASTELDVVESRAQLLVGSPGPVPRVLSDLH
LLTQSQVRVSWSPAEDHNAPIEKYDIEFEDKEMAPEKWYSLGKVPGNQTSTTLKLS
PYVHYTFRVTAINKYGPGEPSPVSETVVTPEAAPEKNPVDVKGEGNETTNMVTWK
PLRWMDWNAPQVQYRVQWRPQGTRGPWQEIVSDPFLVVSNTSTFVPEIKVQA
VNSQKGKPEPQVTIGYSGEDYPQAIPELEGIEILNSSAVLVKWRPVDLAQVKGHLRG
YNVTYWREGSQRKHSKRHIHKDHVVVPANTTSVILSGLRPYSSYHLEVQAFNGRGS
GPASEFTFSTPEGVPGHPEALHLECSNTSLLLWQPPLSHNGVLTGYVLSYHPLD
EGGKGQLSFNLRDPELRTHNLTDLSPHLRYRFQLQATTKEGPGEAIVREGGMALS
GISDFGNISATAGENYSVVSWVPKEGQCNRFRHILFKALGEEKGGASLSPQYVSYN
QSSYTQWDLQPDTDYEIHLFKERMFRHQMAVKTNGTGRVRLPPAGFATEGWFIGF
VSAIIILLVLLILCFIKRSKGGKYSVKDKEDTQVDSEARPMKDETFGEYRSLESDNEE
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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