Recombinant Human L1CAM, His-tagged

Cat. No. L1CAM-26864TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment, corresponding to amino acids 605-1065 of Human L1CAM with an N-terminal His tag; MWt 53 kDa.
Species	Human
Source	E.coli
ProteinLength	605-1065 a.a.
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 three X-linked neurological syndromes known by the acronym CRASH (corpus callosum hypoplasia, retardation, aphasia, spastic paraplegia and hydrocephalus). Alternative splicing of a neuron-specific exon is thought to be functionally relevant.
Conjugation	HIS
Form	Lyophilised:Reconstitute with 58 µl aqua dest
Storage buffer	Preservative: NoneConstituents: 0.5% Trehalose, 6M Urea, 100mM Sodium phosphate, 10mM Sodium chloride, pH 4.5

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Storage	Shipped at 4°C. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	(Amino acid sequence (Sequence determined by 5 Sequencing))QLLVVGSPGPVPR LVLSDLHLLTQSQ VRVSWSPAEDHNAPIEKYDIEFEDKEMAPEKWYSLGKV PGNQ TSTTLKLSPYVHYTFRVTAINKYGPGEPSPVSETVVTPEAAPEKNPVDVKGEGNETT NMVITWKPLRWMDWNAP QVQYRVQWRPQGTRGPWQEQIVSDPFLVVSNTSTFV PY EIKVQAVNSQGKGPEPQVTIGYSGEDYPQAIPELEGIE ILNSSAVLVKWRPVDLA QVKGHLRGYNVTYWREGSQRK HSKRHIHKDHVVVPANTTSVILSGLRPYSSYHLEV QAFNG RGSGPASEFTFSTPEGVPGHPEALHLECQSNTSLLLRW QPPLSHNGVLTG YVLSYHPLDEGGKGQLSFNLRDPELR THNLTDLSPHLRYRFQLQATTKEGPGEAIV REGGTMAL SGISDFGNISATAGENYSVVSWVPKEGQCNFRFHILFKAL GEEKGGA SLSP
Sequence Similarities	Belongs to the immunoglobulin superfamily. L1/neurofascin/NgCAM family.Contains 5 fibronectin type-III domains.Contains 6 Ig-like C2-type (immunoglobulin-like) domains.

GENE INFORMATION

Gene Name	L1CAM L1 cell adhesion molecule [Homo sapiens]
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;
Gene ID	3897
mRNA Refseq	NM_000425
Protein Refseq	NP_000416

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MIM	308840
Uniprot ID	P32004
Chromosome Location	Xq28
Pathway	Axon guidance, organism-specific biosystem; Axon guidance, conserved biosystem; Axon guidance, organism-specific biosystem; Basigin interactions, organism-specific biosystem; Cell adhesion molecules (CAMs), organism-specific biosystem;
Function	PDZ domain binding; identical protein binding; integrin binding; protein self-association; sialic acid binding;

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