

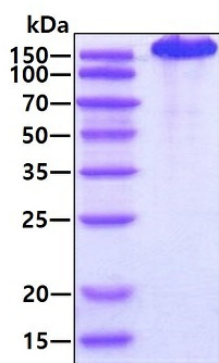
Bioactive

L1CAM (Human) Recombinant Protein

Catalog # P7862

Size 50 ug

Applications



SDS-PAGE analysis of L1CAM (Human) Recombinant Protein.

Specification

Product Description

Human L1CAM (P63302, 20 a.a. - 1115 a.a.) partial recombinant protein with His tag expressed in Baculovirus.

Sequence

IQIPEELMEPPVITEQSPRRLLVFPTDDISLKCEASGKPEVQFRWTRDGVHFKPKEELGVTVYQSP
HSGSFTITGNNSNFAQRFQGIYRCFASNKLGTA MSHEIRLMAEGAPKWPKETVKPVEVEEGESVV
LPCNPPPSAEPLRIYWMNSKILHIKQDERVTMGQNGNLYFANVLTSDNHSDYICAHFPGTRTIQK
EPIDLRVKATNSMIDRKPRLLFPTNSSSHLVALQGQPLVLECIAEGFPTPTIKWLRPSGMPADRV
TYQNHNKTLLKLVGEEDDGEYRCLAENSLGSARHAYYVTEAAPYWLHKPQSHLYGPGETARL
DCQVQGRPQPEVTWRINGIPVEELAKDQKYRIQRGALILSNVQPSDTMTVQCEARNRHGLLLANA
YYVVQLPAKILTADNQTYMAVQGSTAYLLCKAFGAPVPSVQWLDEDGTTVLQDERFFPYANGTLG
IRDLQANDTGRYFCLAANDQNNVTIMANLKVKDATQITQGRSTIEKKGSRVTFTCQASFDPSLQP
SITWRGDGRDLQELGDS DKYFIEDGRLVIHSLDYSDQGNYS CVASTELDVVESRAQLLVGSPGP
VPRLVLSDLHLLTQSQVRVSWSPAEDHNAPIEKYDIEFEDKEMAPEKWYSLGKVPGNQTSTTLKL
SPYVHYTFRVTAINKYGPGEPSPVSETVVTPEAAPEKNPVDVKGEGNETTNMVITWKPLRWMDW
NAPQVQYRVQWRPQGTRGPWQEQVSDPFLVVSNTSTFVPYEIKVQAVNSQGKGPEPQVTIGYS
GEDYPQAIPELEGIEILNSSAVLVKWRPVDLAQVKGHLRGYNVTYWREGSQRKHSKRHHKDHVV
VPANTTSVILSGLRPYSSYHLEVQAFNGRGS GPASEFTFSTPEGVPGHPEALHLECQSNTSLLLR
WQPPLSHNGVLTGYVLSYHPLDEGGKGQLSFNLRDPELRTHNLTDLSPHLR YRFQLQATTKEGP
GEAIVREGGTMALSGISDFGNISATAGENYSVVS WVPKEGQC NFRFHILFKALGEEKGGASLSPQ
YVSYNQSSYTQWDLQPD TDYIEHLFKERMFRHQMAVKTNGTGRVRLPPAGFATE

Host

Viruses

Theoretical MW (kDa)	123.6
Form	Liquid
Preparation Method	Baculovirus expression system
Purity	> 90% as analyzed by SDS-PAGE.
Endotoxin Level	< 1 EU/ug of protein by the LAL method.
Activity	Measured by the ability of the immobilized protein to support the adhesion of Neuro-2a mouse neuro blastoma cells. When cells are added to human L1CAM coated plates 1 ug/ml. This effect is more to 30%.
Quality Control Testing	SDS-PAGE Stained with Coomassie Blue. SDS-PAGE analysis of L1CAM (Human) Recombinant Protein.
Recommend Usage	Biological Activity SDS-PAGE The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.4 (10% glycerol)
Storage Instruction	Store at 4°C for 1 week. For long term storage store at -20°C to -80°C. Aliquot to avoid repeated freezing and thawing.

Applications

- Functional Study
- SDS-PAGE

Gene Info — L1CAM

Entrez GeneID	3897
Protein Accession#	P32004
Gene Name	L1CAM
Gene Alias	CAML1, CD171, HSAS, HSAS1, MASA, MIC5, N-CAML1, S10, SPG1
Gene Description	L1 cell adhesion molecule
Omim ID	142623 303350 304100 307000 308840

Gene Ontology

[Hyperlink](#)

Gene Summary

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. [provided by RefSeq]

Other Designations

OTTHUMP00000025992|antigen identified by monoclonal antibody R1|neural cell adhesion molecule L1

Pathway

- [Axon guidance](#)
- [Cell adhesion molecules \(CAMs\)](#)

Disease

- [Adenocarcinoma](#)
- [Alzheimer disease](#)
- [Cardiovascular Diseases](#)
- [Cystadenocarcinoma](#)
- [Diabetes Mellitus](#)
- [Disease Progression](#)
- [Edema](#)
- [Endometrial Neoplasms](#)
- [Genetic Predisposition to Disease](#)
- [Mental Disorders](#)
- [Multiple Sclerosis](#)
- [Ovarian cancer](#)
- [Ovarian Neoplasms](#)

- [Schizophrenia](#)
- [Spastic Paraplegia](#)