

Bioactive

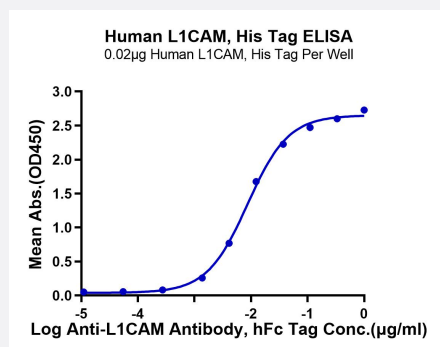
HuPro®

L1CAM (Human) Recombinant Protein

Catalog # P9798

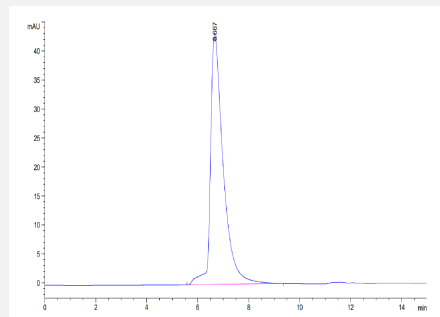
Size 100 ug

Applications



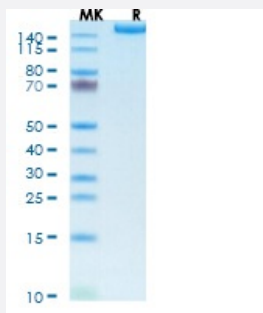
Enzyme-linked Immunoabsorbent Assay

Immobilized Human L1CAM, His Tag at 0.2 ug/mL (100 uL/well) on the plate. Dose response curve for Anti-L1CAM Antibody, hFc Tag with the EC50 of 8.7 ng/mL determined by ELISA.



SEC-HPLC

The purity of Human L1CAM is greater than 95% as determined by SEC-HPLC.



Tris-Bis PAGE

Human L1CAM on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

Specification

Product Description	Human L1CAM (P32004-1, Ile20-Glu1120) partial recombinant protein with His tag at C-terminus expressed in HEK293 cells.
Sequence	Ile20-Glu1120
Host	Human
Theoretical MW (kDa)	124.6
Form	Lyophilized
Preparation Method	Mammalian cell (HEK293) expression system
Purity	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin Level	< 1 EU per 1 ug of protein (determined by LAL method)
Activity	The EC ₅₀ was 8.7 ng/mL, measured by ELISA at 0.2 ug/mL.
Quality Control Testing	SEC-HPLC and Tris-Bis PAGE SEC-HPLC The purity of Human L1CAM is greater than 95% as determined by SEC-HPLC. Tris-Bis PAGE Human L1CAM on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.
Recommend Usage	Biological Activity ELISA SDS-PAGE The optimal working dilution should be determined by the end user.
Storage Buffer	Lyophilized from sterile distilled Water is > 100 ug/mL
Storage Instruction	Store at 2°C to 8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Result of bioactivity analysis

Applications

- Enzyme-linked Immunoabsorbent Assay

Immobilized Human L1CAM, His Tag at 0.2 ug/mL (100 uL/well) on the plate. Dose response curve for Anti-L1CAM Antibody, hFc Tag with the EC₅₀ of 8.7 ng/mL determined by ELISA.

- Functional Study

- SDS-PAGE

Gene Info — L1CAM

Entrez GeneID [3897](#)

Protein Accession# [P32004-1](#)

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](#)