

L1CAM recombinant protein

L1CAM Protein, Human, Recombinant (hFc Tag), HPLC-verified

CATALOG #
AAA259170

HOST
HEK293 Cells

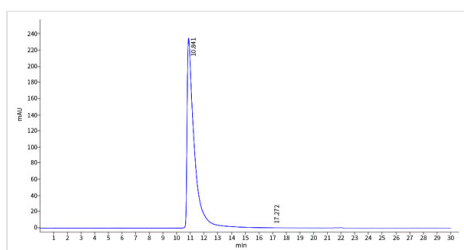
PRODUCT SYNONYMS

L1CAM; L1CAM Protein; Human; Recombinant (hFc Tag); HPLC-verified; L1 cell adhesion molecule; CAML1 Protein; CD171 Protein; HSAS Protein; HSAS1 Protein; MASA Protein; MIC5 Protein; N-CAM-L1 Protein; N-CAML1 Protein; NCAM-L1 Protein; S10 Protein; SPG1 Protein; L1CAM recombinant protein

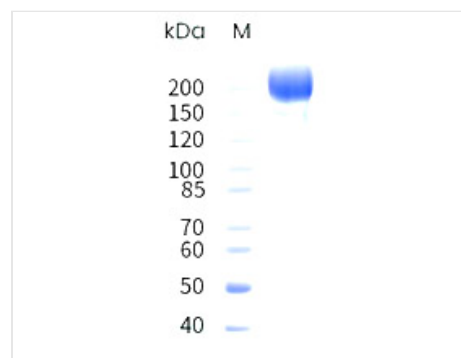
PRODUCT SPECIFICATIONS

Host	HEK293 Cells
Purity/Purification	>= 90% as determined by SDS-PAGE. = 95% as determined by SEC-HPLC.
Form/Format	Lyophilized from sterile PBS, pH 7.4. Please contact us for any concerns or special requirements. Normally 5%-8% trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
Species	Human
Predicted N Terminal	Ile 20
Endotoxin	<1.0 EU per ug protein as determined by the LAL method.
Protein Construction	A DNA sequence encoding the Human L1CAM (NP_000416.1)(Met1-Glu1120) was expressed with the Fc region of human IgG1 at the C-terminus.
Preparation and Storage	Samples are stable for up to twelve months from date of receipt at -20 degree C to -80 degree C. Store it under sterile conditions at -20 degree C to -80 degree C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

IMAGES



Application Data



Application Data

ADDITIONAL INFORMATION

Related Product Information for L1CAM recombinant protein	L1 cell adhesion molecule (L1CAM), also designated as CD171, is a cell adhesion receptor of the immunoglobulin superfamily, known for its roles in nerve cell function. While originally believed to be present only in brain cells, in recent years L1-CAM has been detected in other tissues, and a variety of cancer cells, including some common types of human cancer. L1CAM interacts with a variety of ligands including axonin-1, CD9, neurocan, and integrins, and it has been revealed that the RGD motif in the sixth Ig domain of L1CAM is a binding site for integrins, thus important for nuclear signaling. Disruption of L1CAM function causes three X-linked neurological syndromes, i.e. hydrocephalus, MASA syndrome (mental retardation, aphasia, shuffling gait, and adducted thumbs), and spastic paraplegia syndrome. Overexpression of L1CAM in normal and cancer cells increased motility, enhanced growth rate, and promoted cell transformation and tumorigenicity. Recent work has identified L1CAM (CD171) as a novel marker for human carcinoma progression, and a candidate for anti-cancer therapy.
References	Meier F, et al. (2006) The adhesion molecule L1 (CD171) promotes melanoma progression. Int J Cancer. 119(3): 549-55. Gavert N, et al. (2008) L1-CAM in cancerous tissues. Expert Opin Biol Ther. 8(11): 1749-57. Issa Y, et al. (2009) Enhanced L1CAM expression on pancreatic tumor endothelium mediates selective tumor cell transmigration. J Mol Med. 87(1): 99-112. Weidle UH, et al. (2009) L1-CAM as a target for treatment of cancer with monoclonal antibodies. Anticancer Res. 29(12): 4919-31. Raveh S, et al. (2009) L1 cell adhesion molecule (L1CAM) in invasive tumors. Cancer Lett. 282(2): 137-45. Wolterink S, et al. (2010) Therapeutic antibodies to human L1CAM: functional characterization and application in a mouse model for ovarian carcinoma. Cancer Res. 70(6): 2504-15.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4557707
NCBI GeneID	3897
NCBI Accession #	NP_000416.1
NCBI GenBank Nucleotide #	NM_000425.4
UniProt Accession #	P32004; Q8TA87; A0AV65; A4ZYW4; B2RMU7; G3XAF4
Molecular Weight	140,003 Da
NCBI Official Full Name	neural cell adhesion molecule L1 isoform 1
NCBI Official Synonym Full Names	L1 cell adhesion molecule
NCBI Official Symbol	L1CAM
NCBI Official Synonym Symbols	S10; HSAS; MASA; MIC5; SPG1; CAML1; CD171; HSAS1; N-CAML1; NCAM-L1; N-CAM-L1
NCBI Protein Information	neural cell adhesion molecule L1; antigen identified by monoclonal antibody R1
UniProt Protein Name	Neural cell adhesion molecule L1
UniProt Gene Name	L1CAM
UniProt Synonym Gene Names	CAML1; MIC5; N-CAM-L1; NCAM-L1
UniProt Entry Name	L1CAM_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.