

Recombinant human L1CAM protein

Catalog Number: ATGP4032

PRODUCT INFORMATION

Expression system

Baculovirus

Domain

20-1115aa

UniProt No.

P32004

NCBI Accession No.

NP_001137435

Alternative Names

Neural cell adhesion molecule L1 isoform 3, L1CAM, CAML1, CD171, HSAS, HSAS1, MASA, MIC5, N-CAM-L1, N-CAML1, NCAM-L1, S10, SPG1

PRODUCT SPECIFICATION

Molecular Weight

123.6 kDa (1104aa)

Concentration

0.25mg/ml (determined by absorbance at 280nm)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

Purity

> 90% by SDS-PAGE

Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

Biological Activity

Measured by the ability of the immobilized protein to support the adhesion of Neuro-2a mouse neuroblastoma cells. When cells are added to human L1CAM coated plates 1 ug/ml. This effect is more to 30%.

Tag

His-Tag

Application

SDS-PAGE, Bioactivity

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

Recombinant human L1CAM protein

Catalog Number: ATGP4032

BACKGROUND

Description

L1CAM, also known as neural cell adhesion molecule L1 isoform 3, is a cell adhesion receptor of the immunoglobulin superfamily, known for its roles in nerve cell function. It is now recognized to play a key role in cell migration, adhesion, neurite outgrowth, myelination and neuronal differentiation. Overexpression of L1CAM in normal and cancer cells increased motility, enhanced growth rate and promoted cell transformation and tumorigenicity. Recombinant human L1CAM, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

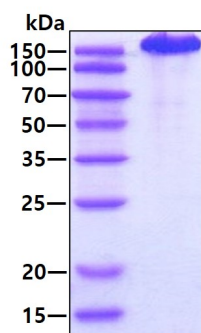
IQIPEELMEP PVITEQSPRR LVVFPDDIS LKCEASGKPE VQFRWTRDGV HFKPKEELGV TVYQSPHSGS FTITGNNSNF AQRFGIYRC FASNKLG TAM SHEIRLMAEG APKWPKETVK PVEVEEGESV VLPCNPPPSA EPLRIYWMNS KILHIKQDER VTMGQNGNLY FANVLTS DNH SDYICHAHFP GTRTIIQKEP IDLRVKATNS MIDRKPRLLF PTNSSSHLVA LQGQPLVLEC IAEGFPPTI KWL RPSGPMP ADRVTYQNH KTLQLLKVGE EDDGEYRCLA ENSLGSARHA YYVTVEAAPY WLHKPQSHLY GPGETARLDC QVQGRPQPEV TWRINGIPVE ELAKDQKYRI QRGALILSNV QPSDTMVTQC EARNRHGLLL ANAYIYVVQL PAKILTADNQ TYMAVQGSTA YLLCKAFGAP VPSVQWLDED GTTVLQDERF FPYANGTLGI RDLQANDTGR YFCLAANDQN NVTIMANLKV KDATQITQGP RSTIEKKGSR VTFTCQASFD PSLQPSITWR GDGRDLQELG DSDKYFIEDG RLVHSLDYS DQGNYSVAS TELDVVESRA QLLVVGSPGP VPRLVLS DLH LLTQSQVRVS WSPAEDHNAP IEKYDIEFED KEMAPEKWYS LGKVPGNQTS TTLKLSPIYVH YTFRVTAINK YGPGESPVS ETVVTPEAAP EKNPVDVKGE GNETTNM VIT WKPLRWMDWN APQVQYRVQW RPQGRGPWQ EQIVSDPFLV VSNTSTFVPI EIKVQAVNSQ GKGPEPQVTI GYSGEDYPQA IPELEGIEIL NSSAVLVKWR PVDLAQVKGH LRGYNVTYWR EGSQRKHSKR HIHKDHVVVP ANTTSVILSG LRPYSSYHLE VQAFNGRGS G PASEFTFSTP EGVPGHPEAL HLECQSNTSL LLRWQPPLSH NGVLTGYVLS YHPLDEGGKG QLSFNLRDPE LRTHNLTDLS PHLRYRFQLQ ATTKEGPGEA IVREGGTMAL SGISDFGNIS ATAGENYSVV SWVPKEGQCN FRFHILFKAL GEEKGGASLS PQYVSYNQSS YTQWDLQPD T DYEIHLFKER MFRHQMAVKT NGTGRVRLPP AGFATE<LEHH HHHH>

General References

- Maness, P.F., et al. (2007) *Nat. Neurosci.* 10:19-26.
- Gavert, N., et al. (2008) *Expert Opin Biol Ther.* 8(11):1749-57.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain