Recombinant human L1CAM protein

Catalog Number: ATGP3618

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)

Tag
His-Tag

Application
SDS-PAGE

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.

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

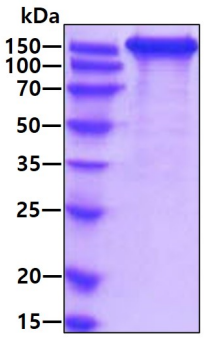
IQIPEELMEP PVITEQSPRR LVVFPTDDIS LKCEASGKPE VQFRWTRDGV HFKPKEELGV TVYQSPHSGS FTITGNNSNF AQRFQGIYRC FASNKLGTAM SHEIRLMAEG APKWPKETVK PVEVEEGESV VLPCNPPPSA EPLRIYWMNS KILHIKQDER VTMGQNGNLY FANVLTSDNH SDYICHAHFP GTRTIIQKEP IDLRVKATNS MIDRKPRLLF PTNSSSHLVA LQGQPLVLEC IAEGFPTPTI KWLRPSGPMP ADRVTYQNHN KTLQLLKVGE 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 RLVIHSLDYS DQGNYSCVAS TELDVVESRA QLLVVGSPGP VPRLVLSDLH LLTQSQVRVS WSPAEDHNAP IEKYDIEFED KEMAPEKWYS LGKVPGNQTS TTLKLSPYVH YTFRVTAINK YGPGEPSPVS ETVVTPEAAP EKNPVDVKGE GNETTNMVIT WKPLRWMDWN APQVQYRVQW RPQGTRGPWQ EQIVSDPFLV VSNTSTFVPY EIKVQAVNSQ GKGPEPQVTI GYSGEDYPQA IPELEGIEIL NSSAVLVKWR PVDLAQVKGH LRGYNVTYWR EGSQRKHSKR HIHKDHVVVP ANTTSVILSG LRPYSSYHLE VQAFNGRGSG PASEFTFSTP EGVPGHPEAL HLECQSNTSL LLRWQPPLSH NGVLTGYVLS YHPLDEGGKG QLSFNLRDPE LRTHNLTDLS PHLRYRFQLQ ATTKEGPGEA IVREGGTMAL SGISDFGNIS ATAGENYSVV SWVPKEGQCN FRFHILFKAL GEEKGGASLS PQYVSYNQSS YTQWDLQPDT 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