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Datasheet for ABIN3113402

**L1CAM Protein (AA 20-1257) (rho-1D4 tag)**

## Overview

Quantity:	1 mg
Target:	L1CAM
Protein Characteristics:	AA 20-1257
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This L1CAM protein is labelled with rho-1D4 tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA, Crystallization (Crys)

## Product Details

Sequence:	IQIP EEYEGH HVM EPPVITE QSP RRLVVFP TDDISLKCEA SGKPEVQFRW TRDGVHFKPK EELGVT VYQS PHSGSFTITG NNSNFAQRFQ GIYRCFASNK LGTAMSHEIR LMAEGAPKWP KETVKPVEVE EGESVVLPCN PPPSAEPLRI YWMNSKILHI KQDERVTMGQ NGNLYFANVL TSDNHSDYIC HAHFPGTRTI IQKEPIDLRV KATNSMIDRK PRLLFPTNSS SHLVALQGQP LVLECIAEGF PTPTIKWLRP SGPMPADRVT YQNHNKTLQL LKVGEEDDGE YRCLAENSLG SARHAYYVTV EAAPYWLHKP QSHLYGPGET ARLDCQVQGR PQPEVTWRIN GIPVEELAKD QKYRIQRGAL ILSNVQPSDT MVTQCEARNR HGLLLANAYI YVVQLPAKIL TADNQTYMAV QGSTAYLLCK AFGAPVPSVQ WLDEDGTTVL QDERFFPYAN GTLGIRDLQA NDTGRYFCLA ANDQNNVTIM ANLKVKDATQ ITQGPRSTIE KKGSRVTFTC QASFDPSLQP SITWRGDGRD LQELGDS DKY FIEDGRLVIH SLDYSDQGN Y SCVASTELDV VESRAQLLVV GSPGPVPRLV LSDLHLLTQS QVRVSWSPAE DHNAPIEKYD IEFEDKEMAP EKWYSLGKVP GNQTSTTLKL SPYVHYTFRV TAINKYGPGE PSPVSETVVT PEAAPKPNPV DVKGEGNETT NMVITWKPLR
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WMDWNAPQVQ YRVQWRPQGT RGPWQEQIVS DPFLVVSNTS TFVPYEIKVQ AVNSQGKGPE  
PQVTIGYSGE DYPQAIPELE GIEILNSSAV LVKWRPVDLA QVKGHLRGYN VTYWREGSQR  
KHSKRHIHKD HVVVPANTTS VILSGLRPYS SYHLEVQAFN GRGSGPASEF TFSTPEGVPG  
HPEALHLECQ SNTSLLLRWQ PPLSHNGVLT GYVLSYHPLD EGGKGQLSFN LRDPELRTHN  
LTDLSPHLRY RFQLQATTKE GPGEAIVREG GTMALSGISD FGNISATAGE NYSVSWVVPK  
EGQCNFRFHI LFKALGEEKG GASLSPQYVS YNQSSYTQWD LQPDTDYEIH LFKERMFRHQ  
MAVKTNGTGR VRLPPAGFAT EGWFIGFVSA IILLLLVLLI LCFIKRSKGG KYSVKDKEDT  
QVDSEARPMK DETFGEYRSL ESDNEEKAFG SSQPSLNGDI KPLGSDDSLA DYGGSVQVQF  
NEDGSFIGQY SGKKEKEAAG GNDSSGATSP INPAVALE

**Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.**

Characteristics:

- Made in Germany - from design to production - by highly experienced protein experts.
- Human L1CAM Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made to order protein and will be made for the first time for your order. Our experts in the lab will ensure that you receive a correctly folded protein.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization).

When you order this made-to-order protein you will only pay upon receipt of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered.

The concentration of our recombinant proteins is measured using the absorbance at 280nm. The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.

The concentration of the protein is calculated using its specific absorption coefficient. We use the Expasy's protparam tool to determine the absorption coefficient of each protein.

Purification:

Three step purification of membrane proteins expressed in baculovirus infected SF9 insect cells:

1. Membrane proteins are fractionated by ultracentrifugation and subsequently solubilized with

## Product Details

- different detergents (detergent screen). Samples are analyzed by Western blot.
2. The best performing detergent is used for solubilization and the proteins are purified via their rho1D4 tag via two rho1D4 antibody columns: one DTT resistant, the other one not. Eluate fractions are analyzed by Western blot.
3. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatograph. Eluate fractions are analyzed by SDS-PAGE and Western blot.

Purity:	>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Sterility:	0.22 µm filtered
Endotoxin Level:	Protein is endotoxin-free.
Grade:	Crystallography grade

## Target Details

Target:	L1CAM
Alternative Name:	L1CAM ( <a href="#">L1CAM Products</a> )
Background:	Cell adhesion molecule with an important role in the development of the nervous system. Involved in neuron-neuron adhesion, neurite fasciculation, outgrowth of neurites, etc. Binds to axonin on neurons.
Molecular Weight:	139.0 kDa Including tag.
UniProt:	<a href="#">P32004</a>
Pathways:	<a href="#">Synaptic Membrane</a>

## Application Details

Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Comment:	In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest.
Restrictions:	For Research Use only

## Handling

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Format:	Liquid
Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)