

Datasheet for ABIN3134630

CHL1 Protein (AA 26-1209) (rho-1D4 tag)



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1 Image

Overview

| | |
|-------------------------------|--|
| Quantity: | 1 mg |
| Target: | CHL1 |
| Protein Characteristics: | AA 26-1209 |
| Origin: | Mouse |
| Source: | Insect Cells |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This CHL1 protein is labelled with rho-1D4 tag. |
| Application: | Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys) |

Product Details

| | |
|-----------|--|
| Sequence: | <p>EIPLSVQQVP TIVKQSYVQV AFPFDEYFQI ECEAKGNPEP IFSWTKDDKP FDLSDPRIIA</p> <p>ANNSGTFKIP NEGHISHFQG KYRCFASNRL GTAVSEEIEF IVPGVPKFPK EKIEPIDVEE</p> <p>GDSIVLPCNP PKGLPPLHIY WMNIELEHIE QDERVYMSQR GDLYFANVEE NDSRNDYCCF</p> <p>AAPKLRITIV QKMPPMKLTVN SSNSIKQRKP KLLLPPAQMG SLSAKTVLKG DTLLECFAE</p> <p>GLPTPHIQWS KPGSELPEGR ATIEVHEKTL KIENISYQDR GNYRCTANNL LGKASHDFHV</p> <p>TVEEPPRWKK KPQSAVYSTG SSGILLCEAE GEPQPTIKWR LNGLPIEKHP FPGDFMFPRE</p> <p>ISFTNLLPNH TGVYQCEASN IHGTILANAN IDVIDVIPLI KTKNEENYAT VVGYS AFLHC</p> <p>EYFASPKATV VWEVADETHP LEGDRYH THE NGTLEIYRTT EEDAGSYSCW VDNAMGKAVI</p> <p>TANLDIRNAT KLRVSPKNPR IPKSHVLELY CESQCDSHLK HSLKLSWSKD GEAFEMNGTE</p> <p>DGRIVIDGAY LTISNITAED QGVYSCSAQT SLDSTSEKTQ VTVLGVPDPP GNLHL SERQN</p> <p>RSVRLSWEAG DDHNSKISEY IVEFEGNREE PGKWEELTRV QGEETDVVLS LAPYVRYQFR</p> <p>VTAVNEVGRS HASLPSDHHE TPPAAPDKNP QNIRVQASQP KEMIIKWEPL KSMEQNGPGL</p> |
|-----------|--|

EYKVSWKPGQ APEEWEEIV TNHTLRVMTP TVYAPYDVKV QAINQLGSSP DPQPVTLYSG
EDYPSTAPVI QRVDVMNSTL VKVTWSSIPK ETVHGLLRGY QINWWKTKSL LDGRTHPKEV
NILRFSGQRN SGMVPSLDPF SEFHLTVLAY NSKGAGPESE PYIFQTPEGV PEQPSFLKVI
KVDKDTATLS WGLPKKLNGN LTGYLLQYQI INDTYELGEL NEINVTTPSK SSWHLSNLNS
TTYKFKYLRA CTSRGCGKPI SEEGATLGEG SKGIRKITEG VNVTKIHPV EVLVPGAETH
VHLMTKNWGD NDSIFQDVIE TRGREYAGLY DDISTQGWFI GLMCAIALLT LILLTICFVK
RNRGGKYSVK EKEDLHPDPE VQSAKDETFG EYSDSDEKPL KGSLRSLNRN MQPTESADSL
VEYGEDQSI FNEDGSFIGA YTGAKKEKGSV ESNGSSTATF PLRA

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.
- Mouse Chl1 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 different detergents (detergent screen). Samples are analyzed by Western blot.

Product Details

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: CHL1

Alternative Name: Chl1 ([CHL1 Products](#))

Background: Extracellular matrix and cell adhesion protein that plays a role in nervous system development and in synaptic plasticity. Both soluble and membranous forms promote neurite outgrowth of cerebellar and hippocampal neurons and suppress neuronal cell death. Plays a role in neuronal positioning of pyramidal neurons as well as in regulation of both the number of interneurons and the efficacy of GABAergic synapses. May play a role in regulating cell migration in nerve regeneration and cortical development. Potentiates integrin-dependent cell migration towards extracellular matrix proteins. Recruits ANK3 to the plasma membrane.
{ECO:0000269|PubMed:10022583, ECO:0000269|PubMed:10103075, ECO:0000269|PubMed:12391163, ECO:0000269|PubMed:12721290, ECO:0000269|PubMed:12812975, ECO:0000269|PubMed:14659567, ECO:0000269|PubMed:14761956, ECO:0000269|PubMed:15504324, ECO:0000269|PubMed:16623841}.

Molecular Weight: 133.5 kDa Including tag.

UniProt: [P70232](#)

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.

Application Details

Comment: Protein has not been tested for activity yet. 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

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)

Images



Image 1. „Crystallography Grade“ protein due to multi-step, protein-specific purification process