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Datasheet for ABIN3135997

LPHN3 Protein (AA 20-1537) (rho-1D4 tag)

1 Image

Overview

Quantity:	1 mg
Target:	LPHN3
Protein Characteristics:	AA 20-1537
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This LPHN3 protein is labelled with rho-1D4 tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), Crystallization (Crys), ELISA

Product Details

Sequence: GKHNERHPAL AAPLRHAERS PGGALPPRHL LQQPAAERST AHRGQGPRGA ARGVVRGPGAP
GAQIAAQAFS RAPIPMAVVR RELSCESYPI ELRCPGTDVI MIESANYGRT DDKICDSDPA
QMENIRCYLP DAYKIMSQRN NNRTQCAVA GPDVFPDPCP GTYKYLEVQY ECVPYKVEQK
VFLCPGLLKG VYQSEHLFES DHQSGAWCKD PLQASDKIYY MPWTPYRTDT LTEYSSKDDF
IAGRPTTTYK LPHRVDGTGF VVYDGALFFN KERTRNIVKF DLRTRIKSGE AIIANANYHD
TSPYRWGGKS DIDLAVDENG LWVIYATEQN NGKIVISQLN PYTLRIEGTW DTAYDKRSAS
NAFMICGILY VVKSVEYEDDD NEATGNKIDY IYNTDQSKDS LVDVPPFNSY QYIAAVDYNP
RDNLLYVWNN YHVVKYSLDF GPLDSRSGPV HHGQVSYISP PIHLDSELER PPVRGISTTG
SLGMGSTTTS TTLRTTTWNI GRSTTASLPG RRRNSTSTPS PAVEVLDVDT THLPSAASQI
PAMEESCEAV EAREIMWFKT RQGQVAKQPC PAGTIGVSTY LCLAPDGIWD PQGPDLSNCS
SPWWNHITQK LKSGETAANI ARELAEQTRN HLNAGDITYS VRAMDQLVGL LDVQLRNLTP
GGKDSAARSL NKLQKRERSC RAYVQAMVET VNNLLQPQAL NAWRDLTTSQ QLRAATMLLD

TVEESAFVLA DNLLKTDIVR ENTDNIQLEV ARLSTEGNLE DLKFPENMGH GSTIQLSANT
LKQNGRNGEI RFAFVLYNNL GPYLSTENAS MKLGTEAMST NHSVIVNSPV ITAAINKEFS
NKVYLADPVV FTVKHIKQSE ENFNPNCSFW SYKRTMTGY WSTQGCRLLT TNKTHHTTCS
NHLTNFAVLM AHVEVKHSDA VHDLLLDVIT WVGILLSLVC LLICIFTFCF FRGLQSDRNT
IHKNLCSLF VAELLFLIGI NRTDQPIACA VFAALLHFFF LAAFTWMFLE GVQLYIMLVE
VFESHSRRK YFYLVGYGMP ALIVAVSAAV DYRSYGTDKV CWLRLDTYFI WSFIGPATLI
IMLNIVFLGI ALYKMFHHTA ILKPESGCLD NINYEDNRPF IKSWVIGAIA LLCLLGLTWA
FGLMYINEST VIMAYLFTIF NSLQGMFIFI FHCVLQKKVR KEYGKCLRTH CCSGKSTESS
IGSGKTSGR TPGRYSTGSQ SRIRRMWNDT VRKQSESSFI TGDINSSASL NREGLLNAR
DTSVMDTLPL NGNHGNSYSI AGGEYLSNCV QIIDRGYNHN ETALEKKILK ELTSNYIPSY
LNNHERSSEQ NRNMMNKLVN NLGSGSEDDA IVLDDAASFN HEESLGLELI HEESDAPLLP
PRVYSTDNHQ PHHYSRRRFP QDHSEFFPL LTDEHTEDLQ SPHRDSLYTS MPALAGVPA
DSVTTSTQTE AAAAKGGDAE DVYYKSMPNL GSRNHVHPLH AYYQLGRGSS DGFIVPPNKD
GASPEGTSKG PAHLVTSL

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 Adgrl3 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.

Product Details

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: <ol style="list-style-type: none">1. Membrane proteins are fractioned by ultracentrifugation and subsequently solubilized with 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:	LPHN3
Alternative Name:	Adgrl3 (LPHN3 Products)
Background:	Plays a role in cell-cell adhesion and neuron guidance via its interactions with FLRT2 and FLRT3 that are expressed at the surface of adjacent cells (PubMed:22405201, PubMed:25728924, PubMed:26235031). Plays a role in the development of glutamatergic synapses in the cortex (PubMed:22405201, PubMed:24739570). Important in determining the connectivity rates between the principal neurons in the cortex (PubMed:24739570). {ECO:0000269 PubMed:22405201, ECO:0000269 PubMed:24739570, ECO:0000269 PubMed:25728924, ECO:0000269 PubMed:26235031}.
Molecular Weight:	170.1 kDa Including tag.
UniProt:	Q80TS3

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
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Application Details

though.

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