

Datasheet for ABIN3130876
PTCHD2 Protein (AA 1-1347) (rho-1D4 tag)



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1 Image

Overview

Quantity:	1 mg
Target:	PTCHD2
Protein Characteristics:	AA 1-1347
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This PTCHD2 protein is labelled with rho-1D4 tag.
Application:	Crystallization (Crys), ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence: MDEDDPLLQ DVWLEEEQPE DEACRGIPGP GLQSGAQGCW RRWTLPSRPP TLGFWSTLGW
 AFTNPCCAGL VLFLGCSIPM VLSAFMFLYY PPLDIDISYN AFEIRNHEAS QRFDALALAL
 KSQFGSWGRRN RRDLADFTSE TLQRLISEQL QQLHLGNHSR PASRAPRSAP RDTVATQTSA
 ANSSERRRRE APSPEGQVTN QSRARRGASR WDYSRTRYVSA NTQTHAHWRI ELIFLARGDA
 ERNIFTSERL VTIHEIERKI MDHPGFREFC WKPHEVLKDL PLGSSYSYCSP PSSLMTYFFP
 TERGGKIYYD GMGQDLADIR GSLELAMTHP EFYWYVDEGL SVDNLKSSLL RSEILFGAPL
 PNYYSVDDRW EEQRAKFQSF VVTYVAMLAK QSTSKVQVLY GGTDLFDYEV RRTFNNDMLL
 AFISSSCIAA LVYILTSCSV FLSFFGIASI GLSCLVALFL YHVVFQIQYL GILNGVAAFV IVGIGVDDVF
 VFINTYRQAT HLEDPQLRMI HTIQTAGKAT FFTSLTTAAA YAANVFSQIP AVHDFGLFMS
 LIVTCCWLAV LFTMPAALGL WSLYMAPLES SCQNSCHQKC GRKSSLHFPG DLFTAPERAG
 GGPAQGPLY LDDDIPLLN EDEPASLELG DVSLVSVHCE GLQPTPDANS RGQLLAQLQE
 LLHHWVLWAA VKSRWVIVGL FASILISLV FASRLRPASR APLLFRPDTN IQVLLDLKYN

LSAEGISCIT CSGLFQEKPH SLQNNVRTSL EKKKRGSGVS WASRTETTAQ ESMSTVYISK
VKSKGHPAVY RLSLNASLPA PWQAVSPGDG EVPSFQVYRA PFGDFTKKLT ACMSTVGLLQ
AASPSRKWMV TALACDARRG WKFDFFSYVA TKEQQHTRKL YFAQSHKPPF HGRLCVAPPG
CLLSSSPDGP TKGFFYVPSD KVPKARISAT FGFNPCVNTG CGKPAVRPLV DTGAMVFVVF
GIIGLNRTQQ MDNHVIGDPG SVIYDSSF DL FKEIGHLCLRL CKAIAGNSEL VKPGGAQCLP
SGYSSIFLQ MLHPECKELP EPNLLPGQLS HGAVGVKEGR VQWISMAFES TTYKKGSSFQ
TYSDYLRWES FLRQQLQTFP EGSALHRGFQ TCEHWKQIFM EIIGVQSALY GLVLSLLICV
AAVAVFTTHV LLLLPVLLSI LGIVCLVVTI MYWSGWEMGA VEAISLSILV GSSVDYCVHL
VEGYLLAGEN LPPQLSQDPS SQRQWRTLEA VRHVGVAIVS SALTTVIATV PLFFCIIAPF
AKFGKIVALN TGVSILYTLT VSTALLGIMA PGSFTRTRTS FLKALGAVLL AGALGLGACL
VLLRSGYKIP LPSGATL

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 Disp3 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

Product Details

cells:

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: PTCHD2

Alternative Name: Disp3 ([PTCHD2 Products](#))

Background: Plays a role in neuronal proliferation and differentiation. Plays a role in the accumulation of cellular cholesterol. Involved in intracellular lipid droplet formation. May contribute to cholesterol homeostasis in neuronal cells. {ECO:0000250|UniProtKB:B9U3F2, ECO:0000250|UniProtKB:Q9P2K9}.

Molecular Weight: 149.6 kDa Including tag.

UniProt: [A3KFU9](#)

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: 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.

Application Details

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