Datasheet for ABIN3131881

PCDH12 Protein (AA 18-1180) (rho-1D4 tag)

Go to Product page

1 Image

Overview

Quantity:	1 mg
Target:	PCDH12
Protein Characteristics:	AA 18-1180
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This PCDH12 protein is labelled with rho-1D4 tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), Crystallization (Crys), ELISA

Product Details

Sequence:	LFISGDCQEV ATVMVKFQVT EEVPSGTVIG KLSQELRVEE RRGKAGDAFQ ILQLPQALPV QMNSEDGLLS TSSRLDREKL CRQEDPCLVS FDVLATGASA LIHVEIQVLD INDHQPQFPK DEQELEISES ASLHTRIPLD RALDQDTGPN SLYSYSLSPS EHFALDVIVG PDETKHAELV VVKELDRELH SYFDLVLTAY DNGNPPKSGI SVVKVNVLDS NDNSPVFAES SLALEIPEDT VPGTLLINLT ATDPDQGPNG EVEFFFGKHV SPEVMNTFGI DAKTGQIILR QALDYEKNPA YEVDVQARDL GPNSIPGHCK VLIKVLDVND NAPSILITWA SQTSLVSEDL PRDSFIALVS ANDLDSGNNG LVHCWLNQEL GHFRLKRTNG NTYMLLTNAT LDREQWPIYT LTVFAQDQGP QPLSAEKELQ IQVSDVNDNA PVFEKSRYEV STWENNPPSL HLITLKAHDA DLGSNGKVSY RIKDSPVSHL VIIDFETGEV TAQRSLDYEQ MAGFEFQVIA EDRGQPQLAS SISVWVSLLD ANDNAPEVIQ PVLSEGKATL SVLVNASTGH LLLPIENPSG MDPAGTGIPP KATHSPWSFL LLTIVARDAD SGANGELFYS IQSGNDAHLF FLSPSLGQLF INVTNASSLI GSQWDLGIVV EDQGSPSLQT QVSLKVVFVT SVDHLRDSAH EPGVLSTPAL ALICLAVLLA IFGLLLALFV

SICRTERKDN RAYNCREAES SYRHQPKRPQ KHIQKADIHL VPVLRAHENE TDEVRPSHKD TSKETLMEAG WDSCLQAPFH LTPTLYRTLR NQGNQGELAE SQEVLQDTFN FLFNHPRQRN ASRENLNLPE SPPAVRQPLL RPLKVPGSPI ARATGDQDKE EAPQSPPASS ATLRRQRNFN GKVSPRGESG PHQILRSLVR LSVAAFAERN PVEEPAGDSP PVQQISQLLS LLHQGQFQPK PNHRGNKYLA KPGGSSRGTI PDTEGLVGLK PSGQAEPDLE EGPPSPEEDL SVKRLLEEEL SSLLDPNTGL ALDKLSPPDP AWMARLSLPL TTNYRDNLSS PDATTSEEPR TFQTFGKTVG PGPELSPTGT RLASTFVSEM SSLLEMLLGQ HTVPVEAASA ALRRLSVCGR TLSLDLATSG ASASEAQGRK KAAESRLGCG RNL

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 Pcdh12 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 receival 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 fractioned 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:	PCDH12
Alternative Name:	Pcdh12 (PCDH12 Products)
Background:	Cellular adhesion molecule that may play an important role in cell-cell interactions at interendothelial junctions. Promotes homotypic calcium-dependent aggregation and adhesion and clusters at intercellular junctions. Unable to bind to catenins, weakly associates with the cytoskeleton.
Molecular Weight:	128.0 kDa Including tag.
UniProt:	O55134
Pathways:	Cellular Glucan Metabolic Process

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 gurantee 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