Datasheet for ABIN3114959

PTPRK Protein (AA 27-1439) (rho-1D4 tag)

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Overview

Quantity:	1 mg
Target:	PTPRK
Protein Characteristics:	AA 27-1439
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This PTPRK protein is labelled with rho-1D4 tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), Crystallization (Crys), ELISA

Product Details

Sequence:	AQGQFSAGGC TFDDGPGACD YHQDLYDDFE WVHVSAQEPH YLPPEMPQGS YMIVDSSDHD PGEKARLQLP TMKENDTHCI DFSYLLYSQK GLNPGTLNIL VRVNKGPLAN PIWNVTGFTG RDWLRAELAV STFWPNEYQV IFEAEVSGGR SGYIAIDDIQ VLSYPCDKSP HFLRLGDVEV NAGQNATFQC IATGRDAVHN KLWLQRRNGE DIPVAQTKNI NHRRFAASFR LQEVTKTDQD LYRCVTQSER GSGVSNFAQL IVREPPRPIA PPQLLGVGPT YLLIQLNANS IIGDGPIILK EVEYRMTSGS WTETHAVNAP TYKLWHLDPD TEYEIRVLLT RPGEGGTGLP GPPLITRTKC AEPMRTPKTL KIAEIQARRI AVDWESLGYN ITRCHTFNVT ICYHYFRGHN ESKADCLDMD PKAPQHVVNH LPPYTNVSLK MILTNPEGRK ESEETIIQTD EDVPGPVPVK SLQGTSFENK IFLNWKEPLD PNGIITQYEI SYSSIRSFDP AVPVAGPPQT VSNLWNSTHH VFMHLHPGTT YQFFIRASTV KGFGPATAIN VTTNISAPTL PDYEGVDASL NETATTITVL LRPAQAKGAP ISAYQIVVEE LHPHRTKREA GAMECYQVPV TYQNAMSGGA PYYFAAELPP GNLPEPAPFT VGDNRTYQGF WNPPLAPRKG YNIYFQAMSS VEKETKTQCV RIATKAATEE PEVIPDPAKQ

TDRVVKIAGI SAGILVFILL LLVVILIVKK SKLAKKRKDA MGNTRQEMTH MVNAMDRSYA DQSTLHAEDP LSITFMDQHN FSPRYENHSA TAESSRLLDV PRYLCEGTES PYQTGQLHPA IRVADLLQHI NLMKTSDSYG FKEEYESFFE GQSASWDVAK KDQNRAKNRY GNIIAYDHSR VILQPVEDDP SSDYINANYI DGYQRPSHYI ATQGPVHETV YDFWRMIWQE QSACIVMVTN LVEVGRVKCY KYWPDDTEVY GDFKVTCVEM EPLAEYVVRT FTLERRGYNE IREVKQFHFT GWPDHGVPYH ATGLLSFIRR VKLSNPPSAG PIVVHCSAGA GRTGCYIVID IMLDMAEREG VVDIYNCVKA LRSRRINMVQ TEEQYIFIHD AILEACLCGE TAIPVCEFKA AYFDMIRIDS QTNSSHLKDE FQTLNSVTPR LQAEDCSIAC LPRNHDKNRF MDMLPPDRCL PFLITIDGES SNYINAALMD SYRQPAAFIV TQYPLPNTVK DFWRLVYDYG CTSIVMLNEV DLSQGCPQYW PEEGMLRYGP IQVECMSCSM DCDVINRIFR ICNLTRPQEG YLMVQQFQYL GWASHREVPG SKRSFLKLIL QVEKWQEECE EGEGRTIIHC LNGGGRSGMF CAIGIVVEMV KRQNVVDVFH AVKTLRNSKP NMVEAPEQYR FCYDVALEYL ESS

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 PTPRK 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.

Product Details

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. 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:	PTPRK
Alternative Name:	PTPRK (PTPRK Products)
Background:	Regulation of processes involving cell contact and adhesion such as growth control, tumor invasion, and metastasis. Negative regulator of EGFR signaling pathway. Forms complexes with beta-catenin and gamma-catenin/plakoglobin. Beta-catenin may be a substrate for the catalytic activity of PTPRK/PTP-kappa. {ECO:0000269|PubMed:19836242}.
Molecular Weight:	160.7 kDa Including tag.
UniProt:	Q15262
Pathways:	Cell-Cell Junction Organization

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:	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

Application Details

	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)

