antibodies

Datasheet for ABIN3094829 PTPRB Protein (AA 23-1621) (His tag)

Image



Overview

Quantity:	1 mg
Target:	PTPRB
Protein Characteristics:	AA 23-1621
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This PTPRB protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA, Crystallization (Crys)

Product Details

Sequence:	EPERCNFTLA ESKASSHSVS IQWRILGSPC NFSLIYSSDT LGAALCPTFR IDNTTYGCNL
	QDLQAGTIYN FRIISLDEER TVVLQTDPLP PARFGVSKEK TTSTSLHVWW TPSSGKVTSY
	EVQLFDENNQ KIQGVQIQES TSWNEYTFFN LTAGSKYNIA ITAVSGGKRS FSVYTNGSTV
	PSPVKDIGIS TKANSLLISW SHGSGNVERY RLMLMDKGIL VHGGVVDKHA TSYAFHGLTP
	GYLYNLTVMT EAAGLQNYRW KLVRTAPMEV SNLKVTNDGS LTSLKVKWQR PPGNVDSYNI
	TLSHKGTIKE SRVLAPWITE THFKELVPGR LYQVTVSCVS GELSAQKMAV GRTFPDKVAN
	LEANNNGRMR SLVVSWSPPA GDWEQYRILL FNDSVVLLNI TVGKEETQYV MDDTGLVPGR
	QYEVEVIVES GNLKNSERCQ GRTVPLAVLQ LRVKHANETS LSIMWQTPVA EWEKYIISLA
	DRDLLLIHKS LSKDAKEFTF TDLVPGRKYM ATVTSISGDL KNSSSVKGRT VPAQVTDLHV
	ANQGMTSSLF TNWTQAQGDV EFYQVLLIHE NVVIKNESIS SETSRYSFHS LKSGSLYSVV
	VTTVSGGISS RQVVVEGRTV PSSVSGVTVN NSGRNDYLSV SWLLAPGDVD NYEVTLSHDG
	KVVQSLVIAK SVRECSFSSL TPGRLYTVTI TTRSGKYENH SFSQERTVPD KVQGVSVSNS

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ARSDYLRVSW VHATGDFDHY EVTIKNKNNF IQTKSIPKSE NECVFVQLVP GRLYSVTVTT
KSGQYEANEQ GNGRTIPEPV KDLTLRNRST EDLHVTWSGA NGDVDQYEIQ LLFNDMKVFP
PFHLVNTATE YRFTSLTPGR QYKILVLTIS GDVQQSAFIE GFTVPSAVKN IHISPNGATD
SLTVNWTPGG GDVDSYTVSA FRHSQKVDSQ TIPKHVFEHT FHRLEAGEQY QIMIASVSGS
LKNQINVVGR TVPASVQGVI ADNAYSSYSL IVSWQKAAGV AERYDILLLT ENGILLRNTS
EPATTKQHKF EDLTPGKKYK IQILTVSGGL FSKEAQTEGR TVPAAVTDLR ITENSTRHLS
FRWTASEGEL SWYNIFLYNP DGNLQERAQV DPLVQSFSFQ NLLQGRMYKM VIVTHSGELS
NESFIFGRTV PASVSHLRGS NRNTTDSLWF NWSPASGDFD FYELILYNPN GTKKENWKDK
DLTEWRFQGL VPGRKYVLWV VTHSGDLSNK VTAESRTAPS PPSLMSFADI ANTSLAITWK
GPPDWTDYND FELQWLPRDA LTVFNPYNNR KSEGRIVYGL RPGRSYQFNV KTVSGDSWKT
YSKPIFGSVR TKPDKIQNLH CRPQNSTAIA CSWIPPDSDF DGYSIECRKM DTQEVEFSRK
LEKEKSLLNI MMLVPHKRYL VSIKVQSAGM TSEVVEDSTI TMIDRPPPPP PHIRVNEKDV
LISKSSINFT VNCSWFSDTN GAVKYFTVVV READGSDELK PEQQHPLPSY LEYRHNASIR
VYQTNYFASK CAENPNSNSK SFNIKLGAEM ESLGGKCDPT QQKFCDGPLK PHTAYRISIR
AFTQLFDEDL KEFTKPLYSD TFFSLPITTE SEPLFGAIE

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 PTPRB 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

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	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:	 Two step purification of proteins expressed in baculovirus infected SF9 insect cells: 1. In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE. 2. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. 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:	PTPRB
Alternative Name:	PTPRB (PTPRB Products)
Background:	 Plays an important role in blood vessel remodeling and angiogenesis. Not necessary for the initial formation of blood vessels, but is essential for their maintenance and remodeling. Can induce dephosphorylation of TEK/TIE2, CDH5/VE-cadherin and KDR/VEGFR-2. Regulates angiopoietin-TIE2 signaling in endothelial cells. Acts as a negative regulator of TIE2, and controls TIE2 driven endothelial cell proliferation, which in turn affects blood vessel remodeling during embryonic development and determines blood vessel size during perinatal growth. Essential for the maintenance of endothelial cell contact integrity and for the adhesive function of VE-cadherin in endothelial cells and this requires the presence of plakoglobin (By similarity). {ECO:0000250, ECO:0000269 PubMed:19116766, ECO:0000269 PubMed:19136612}.
Molecular Weight:	179.6 kDa Including tag.
UniProt:	P23467
Application Details	

Application Details

Application Notes:

In addition to the applications listed above we expect the protein to work for functional studies

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Application Details	
	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 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

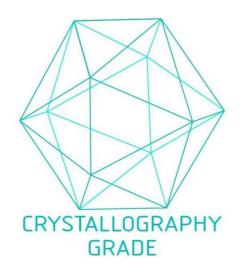


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process

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