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Datasheet for ABIN3131020  
**PTPRB Protein (AA 23-1622) (His tag)**

### Overview

Quantity:	1 mg
Target:	PTPRB
Protein Characteristics:	AA 23-1622
Origin:	Mouse
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: EQVKCNFTLL ESRVSSLSAS IQWRTFASPC NFSLIYSSDT SGPMWCHPIR IDNFTYGCNP  
KDLQAGTVYN FRIVSLDGEE STLVLQTDPL PPARFEVNRE KTA STLQVR WTPSSGKVS  
YEVQLFDHNN QKIQEVQVQE STTWSQYTF LNLTEGNSYKV AITAVSGEKR SFPVYINGST  
VPSPVKDLGI SPNPNSLLIS WSRGSGNVEQ YRLVLMDKGA IVQDTNVDRR DTSYAFHELT  
PGHLYNLTIV TMASGLQNSR WKLVRTAPME VSNLKV TNDG RL TSLNVKWQ KPPGDVDSYS  
ITLSHQGTIK ESKTLAPPVT ETQFKDLVPG RLYQVTISCI SGELSAEKSA AGRTVPEKVR  
NLVSYNEIWM KSFTVNWTPP AGDWEHYRIV LFNESLVLLN TTVGKEETHY ALDGLELIPG  
RQYEIEVIVE SGNLRNSERC QGRTVPLAVL QLRVKHANET SLGITWRAPL GEWEKYIISL  
MDRELLVIHK SLSKDAKEFT FTDLMPGRNY KATVTSMSGD LKQSSSIKGR TVPAQVTDLH  
VNNQGMTSSL FTNWTALGD VEFYQVLLIH ENVVVKNESV SS DTSRYSFR ALKPGSLYSV  
VTTTVSGGIS SRQVVAEGRT VPSSVSGVTV NNSGRNDYLS VSWLPAPGEV DHYVVLSLSE  
GKVDQFLIA KSVSECSFSS LTPGRLYNVT VTTKSGNYAS HSFTEERTVP DKVQGISVSN

SARSDYLKVS WWHATGDFDH YEVTIKNRES FIQTKTIPKS ENECEFIELV PGRLYSVTVS  
TKSGQYEASE QGTGRTIPEP VKDLTLLNRS TEDLHVTWSR ANGDVDQYEV QLLFNDMKVF  
PHIHLVNTAT EYKFTALTPG RHYKILVLT I SGD VQQSAFI EGLTVPSTVK NIHISANGAT  
DRLMVTWSPG GGDVDSYVVS AFRQDEKVDS QTIPKHASEH TFHRLEAGAK YRIAIVSVSG  
SLRNQIDALG QTVPASVQGV VAANAYSSNS LTVSWQKALG VAERYDILL NENGLLLSNV  
SEPATARQHK FEDLTPGKKY KMQILTVSGG LFSKESQAEG RTVPAAVTNL RITENSSRYL  
SFGWTASEGE LSWYNIFLYN PDRTLQERAQ VDPLVQSFSF QNLLQGRMYK MVIVTHSGEL  
SNESFIFGRT VPAAVNHLKG SHRNTTDSLW FSWSPASGDF DFYELILYNP NGTKKENWKE  
KDVTEWRFQG LVPGRKYTLY VVTHSGDLSN KVTGEGRTAP SPPSLLSFAD VANTSLAITW  
KGPPDWDYN DFELQWFPGD ALTIFNPYSS RKSEGRIVYG LHPGRSYQFS VKTVSGDSWK  
TYSKPIGSGV RTKPKIQNL HCRPQNSTAI ACSWIPPDS DFDGYSIECRK MDTQEIEFSR  
KLEKEKSLLN IMMLVPHKRY LVSIVKQSAG MTSEVVEDST ITMIDRPPQP PPHIRVNEKD  
VLISKSSINF TVNCSWFSDT NGAVKYFAVV VREADSMDEL KPEQQHPLPS YLEVRHNASI  
RVYQTNFYAS KCAESPDSSS KSFNIKLGAE MDSLGGKCDP SQQKFCDGPL KPHTAYRISI  
RAFTQLFDED LKEFTKPLYS DTFFSMPITT ESEPLFGVIE

**Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.**

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### Characteristics:

- Made in Germany - from design to production - by highly experienced protein experts.
- Mouse Ptpnb 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

## Product Details

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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.

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Purification:	Two step purification of proteins expressed in baculovirus infected SF9 insect cells: <ol style="list-style-type: none"><li>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.</li><li>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.</li></ol>
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

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## Target Details

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Target:	PTPRB
Alternative Name:	Ptprb ( <a href="#">PTPRB Products</a> )
Background:	<p>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.</p> <p>{ECO:0000269 PubMed:10557082, ECO:0000269 PubMed:12234928, ECO:0000269 PubMed:16514057, ECO:0000269 PubMed:17360632, ECO:0000269 PubMed:19015309, ECO:0000269 PubMed:19451274}.</p>
Molecular Weight:	179.7 kDa Including tag.
UniProt:	<a href="#">B2RU80</a>

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## Application Details

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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.

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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.

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Restrictions: For Research Use only

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## Handling

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Format: Liquid

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Buffer: 100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.

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Handling Advice: Avoid repeated freeze-thaw cycles.

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Storage: -80 °C

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Storage Comment: Store at -80°C.

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Expiry Date: Unlimited (if stored properly)

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