

Datasheet for ABIN7554908

PEX1 Protein (AA 1-1283) (His tag)



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Overview

Quantity:	1 mg
Target:	PEX1
Protein Characteristics:	AA 1-1283
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This PEX1 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Purpose:	Custom-made recombinat PEX1 Protein expressed in mammalian cells.
Sequence:	MWGSDRLAGA GGGGA AVTVA FTNARD CFLH LPRRLVAQLH LLQNQAIEVV WSHQPAFLSW VEGRHFSDQG ENVAEINRQV GQKLGLSNGG QVFLKPCSHV VSCQQVEVEP LSADDWEILE LHAVSLEQHL LDQIRIVFPK AIFPVWVDQQ TYIFIQIVAL IPAASYGRLE TDTKLLIQPK TRRAKENTFS KADA EYKKLH SYGRDQKGMM KELQTKQLQS NTVGITESNE NESEIPVDSS SVASLWTMIG SIFS FQSEKK QETSWGLTEI NAFKNMQSKV VPLDNIFRVC KSQPPSIYNA SATSVFHKHC AIHVFPWDQE YFDVEPSFTV TYGKLVKLLS PKQQQSKTKQ NVLSPEKEKQ MSEPLDQKKI RSDHNEEDEK ACVLQVWVWG LEELNNAIKY TKNVEVLHLG KWIWIPDDLRLK RLNIEMHAVV RITPVEVTPK IPRSLKLQPR ENLPKDISEE DIKTVFYSWL QQSTTTMLPL VISEEEFIKL ETKDGLKEFS LSIVHSWEKE KDKNIFLLSP NLLQKTTIQV LLDPMVKEEN SEEIDFILPF LKLSSLGGVN SLGVSSLEHI THSLLGRPLS RQLMSLVAGL RNGALLLTGG KGSGKSTLAK AICKEAFDKL DAHVERVDCK ALRGKRLNI QKTLEVAFSE AVWMQPSVVL LDDLDLIAGL

PAVPEHEHSP DAVQSQRLAH ALNDMIKEFI SMGSLVALIA TSQSQSLHP LLVSAQGVHI
FQCVQHIQPP NQEQRCEILC NVIKNKLDLQ INKFTDLQ HVAKETGGFV ARDFTVLVDR
AIHSRLSRQS ISTREKLVL TLDQKALRG FLPASLRSVN LHKPRDLGWD KIGGLHEVRQ
ILMDTIQLPA KYPELFANLP IRQRTGILLY GPPGTGKTLL AGVIAESRM NFISVKGPEL
LSKYIGASEQ AVRDFIRAQ AAKPCILFFD EFESIAPRRG HDNTGVTDRV VNQLLTQLDG
VEGLQGVYVL AATSRPDLID PALLRPGRD KCVYCPDPDQ VSRLEILNVL SDSLPLADDV
DLQHVASVTD SFTGADLKAL LYNAQLEALH GMLLSSGLQD GSSSSSDLS LSSMVFLNHS
SGSDDSAGDG ECGLDQSLVS LEMSEILPDE SKFNMYRLYF GSSYESELGN GTSSDLSSQC
LSAPSSMTQD LPGVPGKDQL FSQPPVLRTA SQEGCQELTQ EQRDQLRADI SIIKGRYRSQ
SGEDES MNQP GPIKTRLAIS QSHLMTALGH TRPSISEDW KNFAELYESF QNPKRRKNQS
GTMFRPGQKV TLA **Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.**

Characteristics:

Key Benefits:

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- 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 try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

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.

Purity:

> 90 % as determined by Bis-Tris Page, Western Blot

Grade:

custom-made

Target Details

Target:

PEX1

Alternative Name:

PEX1 ([PEX1 Products](#))

Target Details

Background: Peroxisomal ATPase PEX1 (EC 3.6.4.-) (Peroxin-1) (Peroxisome biogenesis disorder protein 1) (Peroxisome biogenesis factor 1),FUNCTION: Component of the PEX1-PEX6 AAA ATPase complex, a protein dislocase complex that mediates the ATP-dependent extraction of the PEX5 receptor from peroxisomal membranes, an essential step for PEX5 recycling (PubMed:11439091, PubMed:16314507, PubMed:16854980, PubMed:21362118, PubMed:29884772). Specifically recognizes PEX5 monoubiquitinated at 'Cys-11', and pulls it out of the peroxisome lumen through the PEX2-PEX10-PEX12 retrotranslocation channel (PubMed:29884772). Extraction by the PEX1-PEX6 AAA ATPase complex is accompanied by unfolding of the TPR repeats and release of bound cargo from PEX5 (PubMed:29884772). {ECO:0000269|PubMed:11439091, ECO:0000269|PubMed:16314507, ECO:0000269|PubMed:16854980, ECO:0000269|PubMed:21362118, ECO:0000269|PubMed:29884772}.

Molecular Weight: 142.9 kDa

UniProt: [O43933](#)

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.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: The buffer composition 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: 12 months