

Datasheet for ABIN7550726
PEX12 Protein (AA 1-359) (His tag)



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Overview

Quantity:	1 mg
Target:	PEX12
Protein Characteristics:	AA 1-359
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This PEX12 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat PEX12 Protein expressed in mammalian cells.
Sequence:	MAEHGAHFTA ASVADDQPSI FEVVAQDSLM TAVRPALQHV VKVLAESNPT HYGFLWRWFD EIFTLLDLLL QQHLYLSRTSA SFSENFYGLK RIVMGDTHKS QRLASAGLPK QQLWKSIMFL VLLPYLKVKL EKLVSLLREE DEYSIHPPSS RWKRFYRAFL AAYPFVNMAW EGWFLVQQLR YILGKAQHHS PLLRLAGVQL GRLTVQDIQA LEHKPAKASM MQQPARSVSE KINSALKKAV GGVALSLSTG LSVGVFLLQF LDWWYSSSENQ ETIKSLTALP TPPPPVHLDY NSDSPLLPKM KTVCP LCRKT RVNDTVLATS GYVFCYRCVF HYVRSHQACP ITGYPTVEVQH LIKLYSPEN 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:

Product Details

- 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: PEX12

Alternative Name: PEX12 ([PEX12 Products](#))

Background: Peroxisome assembly protein 12 (Peroxin-12) (Peroxisome assembly factor 3) (PAF-3), FUNCTION: Component of a retrotranslocation channel required for peroxisome organization by mediating export of the PEX5 receptor from peroxisomes to the cytosol, thereby promoting PEX5 recycling (PubMed:9354782, PubMed:9632816, PubMed:24662292). The retrotranslocation channel is composed of PEX2, PEX10 and PEX12, each subunit contributing transmembrane segments that coassemble into an open channel that specifically allows the passage of PEX5 through the peroxisomal membrane (By similarity). PEX12 also regulates PEX5 recycling by activating the E3 ubiquitin-protein ligase activity of PEX10 (PubMed:24662292). When PEX5 recycling is compromised, PEX12 stimulates PEX10-mediated polyubiquitination of PEX5, leading to its subsequent degradation (By similarity). {ECO:0000250|UniProtKB:Q04370, ECO:0000269|PubMed:24662292, ECO:0000269|PubMed:9354782, ECO:0000269|PubMed:9632816}.

Molecular Weight: 40.8 kDa

UniProt: [O00623](#)

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.
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Restrictions:	For Research Use only
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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