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Datasheet for ABIN7550708 **PEX2 Protein (AA 1-305) (His tag)**

Overview

Quantity:	1 mg
Target:	PEX2
Protein Characteristics:	AA 1-305
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This PEX2 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat PEX2 Protein expressed in mammalien cells.
Sequence:	MASRKENAKS ANRVLRI SQL DALELNKALE QLVWSQFTQC FHGFKPGLLA RFEPEVKACL WVFLWRFTIY SKNATVGQSV LNIKYKNDFS PNLRYQPPSK NQKIWYAVCT IGGRWLEERC YDLFRNHHLA SFGKVKQCVN FVIGLLKLG LINFLIQLR GK FATLTERL LGIHSVFCKP QNICEVGF EY MNRELLWHGF AEFLIFLLPL INVQKLKAKL SSWCIPLTGA PNSDNTLATS GKECALCGEW PTMPHTIGCE HIFCYFCAKS SFLFDVYFTC PKCGTEVHSL QPLKSGIEMS EVNAL 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: <ul style="list-style-type: none">• Made to order protein - from design to production - by highly experienced protein experts.

Product Details

- 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
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Grade:	custom-made
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Target Details

Target:	PEX2
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Alternative Name:	PEX2 (PEX2 Products)
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Background:	<p>Peroxisome biogenesis factor 2 (EC 2.3.2.27) (EC 2.3.2.36) (35 kDa peroxisomal membrane protein) (Peroxin-2) (Peroxisomal membrane protein 3) (Peroxisome assembly factor 1) (PAF-1) (RING finger protein 72),FUNCTION: E3 ubiquitin-protein ligase 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: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). PEX2 also regulates peroxisome organization by acting as a E3 ubiquitin-protein ligase (By similarity). PEX2 ubiquitinates PEX5 during its passage through the retrotranslocation channel: catalyzes monoubiquitination of PEX5 at 'Cys-11', a modification that acts as a signal for PEX5 extraction into the cytosol (By similarity). Required for pexophagy in response to starvation by mediating ubiquitination of peroxisomal proteins, such as PEX5 and ABCD3/PMP70 (PubMed:27597759). Also involved in the response to reactive oxygen species (ROS) by mediating 'Lys-48'-linked polyubiquitination and subsequent degradation of PNPLA2/ATGL,</p>
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Target Details

thereby regulating lipolysis (PubMed:34903883). {ECO:0000250|UniProtKB:P32800, ECO:0000269|PubMed:24662292, ECO:0000269|PubMed:27597759, ECO:0000269|PubMed:34903883}.

Molecular Weight: 34.8 kDa

UniProt: [P28328](#)

Pathways: [Monocarboxylic Acid Catabolic Process](#)

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