

PEX14 Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP51423**Specification**

PEX14 Antibody - Product Information

Application	WB, IHC-P, E
Primary Accession	O75381
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	41 KDa

PEX14 Antibody - Additional Information**Gene ID** 5195**Other Names**

Peroxisomal membrane protein PEX14, PTS1 receptor-docking protein, Peroxin-14, Peroxisomal membrane anchor protein PEX14, PEX14

Target/Specificity

KLH-conjugated synthetic peptide encompassing a sequence within the center region of human PEX14. The exact sequence is proprietary.

Dilution

WB~~1:1000

IHC-P~~N/A

E~~N/A

Format

0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50%

Storage

Store at -20 °C. Stable for 12 months from date of receipt

PEX14 Antibody - Protein Information**Name** PEX14 {ECO:0000303|PubMed:9653144, ECO:0000312|HGNC:HGNC:8856}**Function**

Component of the PEX13-PEX14 docking complex, a translocon channel that specifically mediates the import of peroxisomal cargo proteins bound to PEX5 receptor (PubMed:24235149, PubMed:28765278, PubMed:9653144). The PEX13-PEX14 docking complex forms a large import pore which can be opened to a diameter of about 9 nm (By similarity). Mechanistically, PEX5 receptor along with cargo proteins associates

with the PEX14 subunit of the PEX13-PEX14 docking complex in the cytosol, leading to the insertion of the receptor into the organelle membrane with the concomitant translocation of the cargo into the peroxisome matrix (PubMed:24235149, PubMed:28765278). Plays a key role for peroxisome movement through a direct interaction with tubulin (PubMed:21525035).

Cellular Location

Peroxisome membrane; Single-pass membrane protein {ECO:0000250|UniProtKB:Q642G4}

PEX14 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

PEX14 Antibody - Images

PEX14 Antibody - Background

Component of the peroxisomal translocation machinery with PEX13 and PEX17. Interacts with both the PTS1 and PTS2 receptors. Binds directly to PEX17.

PEX14 Antibody - References

Fransen M.,et al.Proc. Natl. Acad. Sci. U.S.A. 95:8087-8092(1998).
Shimizu N.,et al.J. Biol. Chem. 274:12593-12604(1999).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Halleck A.,et al.Submitted (JUN-2004) to the EMBL/GenBank/DDBJ databases.
Gregory S.G.,et al.Nature 441:315-321(2006).