

# PEX14 Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP51423

## Product Information

Application	WB, IHC-P
Primary Accession	<a href="#">O75381</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	41237

## 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
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

## 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: <a href="#">24235149</a> , PubMed: <a href="#">28765278</a> , PubMed: <a href="#">9653144</a> ). 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: <a href="#">24235149</a> , PubMed: <a href="#">28765278</a> ). Plays a key role for peroxisome movement through a direct interaction with tubulin (PubMed: <a href="#">21525035</a> ).
Cellular Location	Peroxisome membrane; Single-pass membrane protein {ECO:0000250   UniProtKB:Q642G4}

## Background

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

## References

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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).

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