

Peroxin 14 Polyclonal Antibody
Catalog # AP71856**Specification****Peroxin 14 Polyclonal Antibody - Product Information**

Application	WB, IHC-P
Primary Accession	O75381
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal

Peroxin 14 Polyclonal Antibody - Additional Information**Gene ID** 5195**Other Names**

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

Dilution

WB~~Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/20000. Not yet tested in other applications.

IHC-P~~N/A

Format

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.

Storage Conditions

-20°C

Peroxin 14 Polyclonal 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).

target="_blank">21525035).

Cellular Location

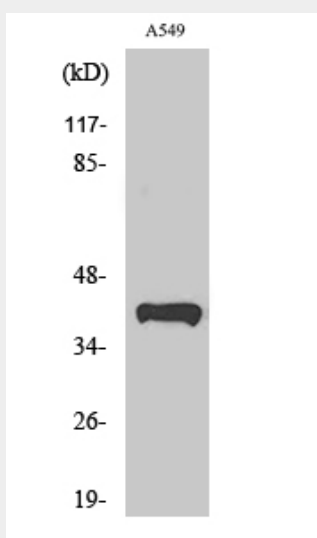
Peroxisome membrane; Single-pass membrane protein {ECO:0000250|UniProtKB:Q642G4}

Peroxin 14 Polyclonal 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](#)

Peroxin 14 Polyclonal Antibody - Images



Western Blot analysis of various cells using Peroxin 14 Polyclonal Antibody

Peroxin 14 Polyclonal Antibody - Background

Peroxisome membrane protein that is an essential component of the peroxisomal import machinery. Functions as a docking factor for the predominantly cytoplasmic PTS1 receptor (PEX5). Plays a key role for peroxisome movement through a direct interaction with tubulin.