

PEX7 Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP51424

Specification

PEX7 Antibody - Product Information

Application	WB, IHC-P, E
Primary Accession	O00628
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	40 KDa

PEX7 Antibody - Additional Information

Gene ID 5191

Other Names

Peroxisomal targeting signal 2 receptor, PTS2 receptor, Peroxin-7, PEX7, PTS2R

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

PEX7 Antibody - Protein Information

Name PEX7 {ECO:0000303|PubMed:9090383, ECO:0000312|HGNC:HGNC:8860}

Function

Receptor required for the peroxisomal import of proteins containing a C-terminal PTS2-type peroxisomal targeting signal (PubMed: [11931631](http://www.uniprot.org/citations/11931631), PubMed: [22057399](http://www.uniprot.org/citations/22057399), PubMed: [25538232](http://www.uniprot.org/citations/25538232), PubMed: [9090381](http://www.uniprot.org/citations/9090381)). Specifically binds to cargo proteins containing a PTS2 peroxisomal targeting signal in the cytosol (PubMed: [11931631](http://www.uniprot.org/citations/11931631), PubMed: [22057399](http://www.uniprot.org/citations/22057399), PubMed: [25538232](http://www.uniprot.org/citations/25538232)). Cargo protein-binding triggers interaction with PEX5 and formation of a ternary complex composed of PEX5 and PEX7 along with PTS2-containing cargo proteins, which is translocated into peroxisomes by passing through the PEX13-PEX14 docking complex (PubMed: [11546814](http://www.uniprot.org/citations/11546814), PubMed: [25538232](http://www.uniprot.org/citations/25538232)).

Cellular Location

Cytoplasm, cytosol. Peroxisome matrix. Note=Translocated into the peroxisome matrix together with PTS2-containing cargo proteins and PEX5

Tissue Location

Ubiquitous (PubMed:9090381). Highest expression in pancreas, skeletal muscle and heart (PubMed:9090381)

PEX7 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](#)

PEX7 Antibody - Images**PEX7 Antibody - Background**

Binds to the N-terminal PTS2-type peroxisomal targeting signal and plays an essential role in peroxisomal protein import.

PEX7 Antibody - References

Purdue P.E., et al. Nat. Genet. 15:381-384(1997).
Braverman N., et al. Nat. Genet. 15:369-376(1997).
Braverman N., et al. Genomics 63:181-192(2000).
van den Brink D.M., et al. Am. J. Hum. Genet. 72:471-477(2003).