10320 Camino Santa Fe, Suite G
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PEX7 Antibody (aa204-253)
Rabbit Polyclonal Antibody
Catalog # ALS15511

Specification

PEX7 Antibody (aa204-253) - Product Information

Application	**WB, IHC**
Primary Accession	O00628
Reactivity	**Human, Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**36kDa KDa**

PEX7 Antibody (aa204-253) - Additional Information

Gene ID 5191

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

Target/Specificity
PEX7 Antibody detects endogenous levels of total PEX7 protein.

Reconstitution & Storage
Store at -20°C for up to one year.

Precautions
PEX7 Antibody (aa204-253) is for research use only and not for use in diagnostic or therapeutic procedures.

PEX7 Antibody (aa204-253) - 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:9090381, PubMed:11931631, PubMed:22057399, PubMed:25538232). Specifically binds to cargo proteins containing a PTS2 peroxisomal targeting signal in the cytosol (PubMed:11931631, PubMed:22057399, PubMed: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 tranlocated into peroxisomes by passing through the PEX13-PEX14 docking complex (PubMed:<a

href="http://www.uniprot.org/citations/11546814" target="_blank">11546814, PubMed: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)

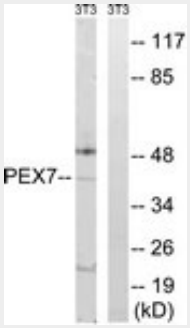
Volume
50 µl

PEX7 Antibody (aa204-253) - Protocols

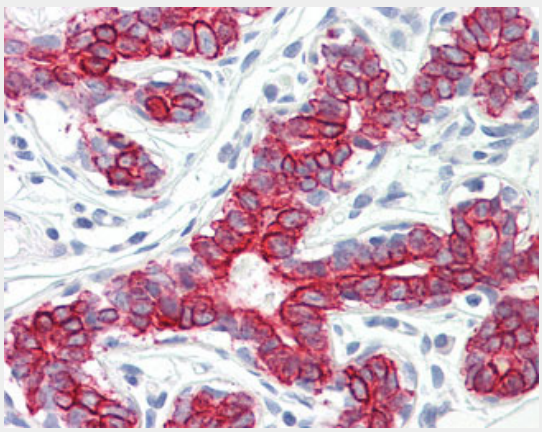
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

PEX7 Antibody (aa204-253) - Images



Western blot of extracts from NIH-3T3 cells, using PEX7 Antibody.



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Anti-PEX7 antibody IHC of human breast.

PEX7 Antibody (aa204-253) - Background

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

PEX7 Antibody (aa204-253) - 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).
Mungall A.J.,et al.Nature 425:805-811(2003).
Mural R.J.,et al.Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.