

Peroxin 2 Polyclonal Antibody
Catalog # AP71858**Specification****Peroxin 2 Polyclonal Antibody - Product Information**

Application	WB
Primary Accession	P28328
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal

Peroxin 2 Polyclonal Antibody - Additional Information**Gene ID** 5828**Other Names**

PEX2; PAF1; PMP3; PMP35; PXMP3; RNF72; Peroxisome biogenesis factor 2; 35 kDa peroxisomal membrane protein; Peroxin-2; Peroxisomal membrane protein 3; Peroxisome assembly factor 1; PAF-1; RING finger protein 72

Dilution

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

Format

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

Storage Conditions

-20°C

Peroxin 2 Polyclonal Antibody - Protein Information**Name** PEX2 {ECO:0000303|PubMed:10891359, ECO:0000312|HGNC:HGNC:9717}**Function**

E3 ubiquitin-protein ligase component of a retrotranslocation channel required for peroxisome organization by mediating export of the PEX5 receptor from peroxisomes to the cytosol, thereby promoting PEX5 recycling (PubMed:24662292). The retrotranslocation channel is composed of PEX2, PEX10 and PEX12; each subunit contributing transmembrane segments that coassemble into an open channel that specifically allows the passage of PEX5 through the peroxisomal membrane (By similarity). PEX2 also regulates peroxisome organization by acting as a E3 ubiquitin-protein ligase (By similarity). PEX2 ubiquitinates PEX5 during its passage through the retrotranslocation channel: catalyzes monoubiquitination of PEX5 at 'Cys-11', a modification that acts as a signal for PEX5 extraction into the cytosol (By similarity). Required for pexophagy in response to starvation by mediating ubiquitination of peroxisomal proteins, such as PEX5 and ABCD3/PMP70 (PubMed:27597759). Also involved in the response to reactive oxygen species (ROS) by mediating 'Lys-48'-linked polyubiquitination

and subsequent degradation of PNPLA2/ATGL, thereby regulating lipolysis (PubMed:34903883).

Cellular Location

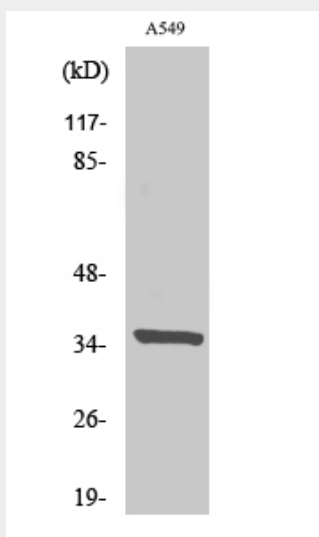
Peroxisome membrane; Multi-pass membrane protein

Peroxin 2 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 2 Polyclonal Antibody - Images



Peroxin 2 Polyclonal Antibody - Background

Somewhat implicated in the biogenesis of peroxisomes.