

PEX2 / PXMP3 Antibody (internal region)
Peptide-affinity purified goat antibody
Catalog # AF3229a**Specification**

PEX2 / PXMP3 Antibody (internal region) - Product Information

Application	WB, E
Primary Accession	P28328
Other Accession	NP_000309.1 , 5828 , 19302 (mouse) , 29534 (rat)
Reactivity	Human
Predicted	Mouse, Rat, Dog
Host	Goat
Clonality	Polyclonal
Concentration	0.5 mg/ml
Isotype	IgG
Calculated MW	34843

PEX2 / PXMP3 Antibody (internal region) - Additional Information**Gene ID** 5828**Other Names**

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, PEX2, PAF1, PMP3, PMP35, PXMP3, RNF72

Dilution

WB~~1:1000

E~~N/A

Format

0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

PEX2 / PXMP3 Antibody (internal region) is for research use only and not for use in diagnostic or therapeutic procedures.

PEX2 / PXMP3 Antibody (internal region) - 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

PEX2 / PXMP3 Antibody (internal region) - 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](#)

PEX2 / PXMP3 Antibody (internal region) - Images



AF3229a (0.5 µg/ml) staining of HeLa lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

PEX2 / PXMP3 Antibody (internal region) - Background

Reported variants represent identical protein: NP_001073336.1, NP_000309.1

PEX2 / PXMP3 Antibody (internal region) - References

The PEX Gene Screen: molecular diagnosis of peroxisome biogenesis disorders in the Zellweger syndrome spectrum. Steinberg S, Chen L, Wei L, Moser A, Moser H, Cutting G, Braverman N, Molecular genetics and metabolism 2004 Nov 83 (3): 252-63. PMID: 15542397