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Peroxin 2 Polyclonal Antibody

Catalog # AP71858

Product Information

Application	WB, IHC-P, IF, ICC, E
Primary Accession	P28328
Reactivity	Human, Rat, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	34843

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. IHC-P~~N/A IF~~1:50~200 ICC~~N/A E~~N/A
Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.
Storage Conditions	-20℃

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

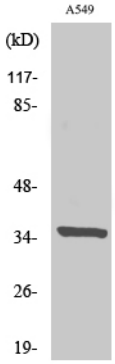
degradation of PNPLA2/ATGL, thereby regulating lipolysis (PubMed:34903883).

Cellular Location Peroxisome membrane; Multi-pass membrane protein

Background

Somewhat implicated in the biogenesis of peroxisomes.

Images



Western Blot analysis of various cells using Peroxin 2 Polyclonal Antibody

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.