

PEX10 Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP50591

Product Information

Application	WB
Primary Accession	O60683
Reactivity	Human
Host	Rabbit
Clonality	polyclonal
Calculated MW	37069

Additional Information

Gene ID	5192
Other Names	Peroxisome biogenesis factor 10, Peroxin-10, Peroxisomal biogenesis factor 10, Peroxisome assembly protein 10, RING finger protein 69, PEX10, RNF69
Dilution	WB~~ 1:1000
Format	Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.09% (W/V) sodium azide and 50% glycerol.
Storage Conditions	-20°C

Protein Information

Name	PEX10 {ECO:0000303 PubMed:9683594, ECO:0000312 HGNC:HGNC:8851}
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). PEX10 also regulates PEX5 recycling by acting as a E3 ubiquitin-protein ligase (PubMed: 24662292). When PEX5 recycling is compromised, PEX10 catalyzes polyubiquitination of PEX5 during its passage through the retrotranslocation channel, leading to its degradation (By similarity).
Cellular Location	Peroxisome membrane; Multi-pass membrane protein

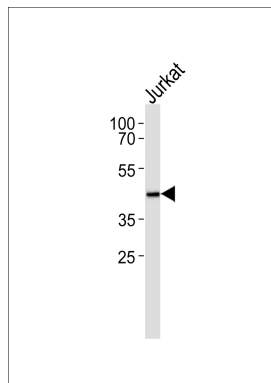
Background

Somewhat implicated in the biogenesis of peroxisomes.

References

Warren D.S.,et al.Am. J. Hum. Genet. 63:347-359(1998).
Okumoto K.,et al.Hum. Mol. Genet. 7:1399-1405(1998).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Gregory S.G.,et al.Nature 441:315-321(2006).
Mural R.J.,et al.Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.

Images



Western blot analysis of lysate from Jurkat cell line,using PEX10 Antibody(AP50591). AP50591 was diluted at 1:1000. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody.Lysate at 35ug.

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