

Anti-PEX10 Antibody

Catalog # AP53314

Product Information

Application	WB, IHC
Primary Accession	O60683
Reactivity	Human, Mk
Host	Rabbit
Clonality	Polyclonal
Calculated MW	37069

Additional Information

Gene ID	5192
Other Names	RNF69; Peroxisome biogenesis factor 10; Peroxin-10; Peroxisomal biogenesis factor 10; Peroxisome assembly protein 10; RING finger protein 69
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human PEX10. The exact sequence is proprietary.
Dilution	WB~~ 1:1000 IHC~~1:100~500
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

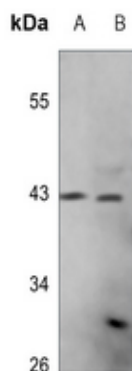
Protein Information

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

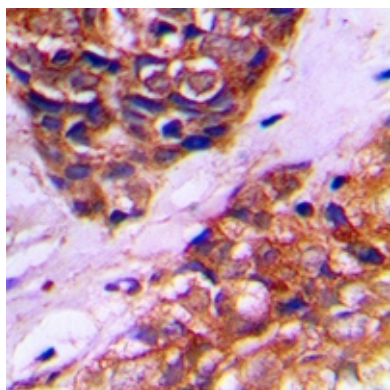
References

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 PEX10 expression in MCF7 (A), HepG2 (B) whole cell lysates. (Predicted band size: 37 kDa; Observed band size: 42 kDa)



Immunohistochemical analysis of PEX10 staining in human prostate cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

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