For Research Use Only

PEX16 Polyclonal antibody

Catalog Number:14816-1-AP Featured Product 14 Publications

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Antibodies | ELISA kits | Proteins
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Basic Information

Catalog Number:
14816-1-AP

Size:
150ul , Concentration: 600 ug/ml by Nanodrop and 333 ug/ml by Bradford method using BSA as the standard;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG6566

GenBank Accession Number:
BC000467

GeneID (NCBI):
9409

UNIPROT ID:
Q9Y5Y5

Full Name:
peroxisomal biogenesis factor 16

Calculated MW:
39 kDa

Observed MW:
38 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:500-1:2000
IF/ICC 1:20-1:200

Applications

Tested Applications:
WB, IF/ICC, ELISA

Cited Applications:
WB, IHC, IF

Species Specificity:
human, mouse, rat

Cited Species:
human, mouse, arabidopsis

Positive Controls:

WB : human liver tissue, HepG2 cells

IF/ICC : HepG2 cells,

Background Information

Peroxins (PEXs) are proteins that are essential for the assembly of functional peroxisomes. Peroxin 16, also known as PEX16 or Peroxisomal biogenesis factor 16, is a 336 amino acid integral membrane protein that has a critical role in the biogenesis of peroxisomes. PEX16 together with PEX3 and PEX19 are specifically involved in peroxisomal membrane protein (PMP) import. Defects in the gene encoding Peroxin 16 are the cause of multiple peroxisome-related disorders, including Zellweger syndrome (ZWS), neonatal adrenoleukodystrophy (NALD), infantile Refsum disease (IRD), classical rhizomelic chondrodysplasia punctata (RCDP) and peroxisome biogenesis disorder complementation group 9 (PBD-CG9).

Notable Publications

Author	Pubmed ID	Journal	Application
Lingjuan Piao	31530170	Antioxid Redox Signal	WB
Ming-Ying Ling	36326546	Arch Biochem Biophys	IHC
Katharina M Walter	25440060	Cell Metab	WB

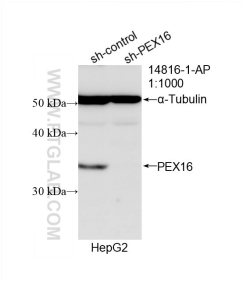
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

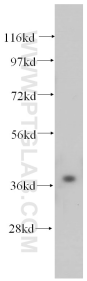
*** 20ul sizes contain 0.1% BSA

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

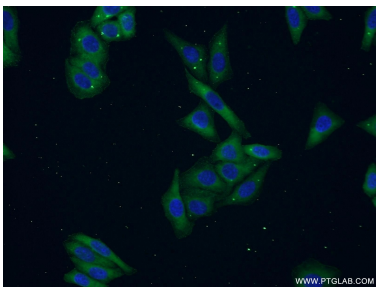
Selected Validation Data



WB result of PEX16 antibody (14816-1-AP; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-PEX16 transfected HepG2 cells.



human liver tissue were subjected to SDS PAGE followed by western blot with 14816-1-AP (PEX16 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of HepG2 cells using 14816-1-AP (PEX16 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).