For Research Use Only

PEX14 Polyclonal antibody

Catalog Number:10594-1-AP Featured Product 96 Publications

proteintech®
Antibodies | ELISA kits | Proteins
www.ptglab.com

Basic Information

Catalog Number:
10594-1-AP

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG0932

GenBank Accession Number:
BC006327

GeneID (NCBI):
5195

UNIPROT ID:
O75381

Full Name:
peroxisomal biogenesis factor 14

Calculated MW:
41 kDa

Observed MW:
57 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB: 1:2000-1:16000
IP: 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IHC: 1:200-1:800
IF/ICC: 1:50-1:500
FC (Intra): 0.40 ug per 10^6 cells in a 100 µl suspension

Applications

Tested Applications:
WB, IHC, IF/ICC, FC (Intra), IP, ELISA

Cited Applications:
WB, IHC, IF, IP

Species Specificity:
human, mouse, rat, monkey

Cited Species:
human, mouse, rat, pig, monkey, chicken, yeast

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : A431 cells, HEK-293 cells, HeLa cells

IP : mouse liver tissue,

IHC : mouse liver tissue, human liver cancer tissue, human cervical cancer tissue

IF/ICC : HeLa cells, COS7 cells, HepG2 cells, NIH/3T3 cells, C2C12 cells

FC (Intra) : HeLa cells,

Background Information

PEX14 (peroxisomal biogenesis factor 14) is a peroxisomal membrane protein that is essential for protein docking onto the peroxisomes. It is a central component of the peroxisimal matrix protein import machinery and interacts with PEX5 and PEX19. PEX14 is ubiquitously expressed and defects in PEX14 are the cause of peroxisome biogenesis disorder complementation group K (PBD-CGK). This antibody can be used to detect endogenous PEX14 with an apparent molecular weight of 57 kDa (PMID: 16449325; 9653144) and recognize peroxisomal structures in human, monkey and mouse cells.

Notable Publications

Author	Pubmed ID	Journal	Application
Fabian Schueren	25247702	Elife	IF
José A Nicolás-Ávila	32937105	Cell	IF
Luis Carlos Tábara	35718349	Brain	WB

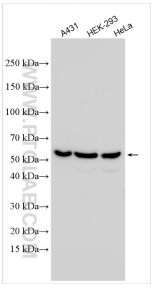
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

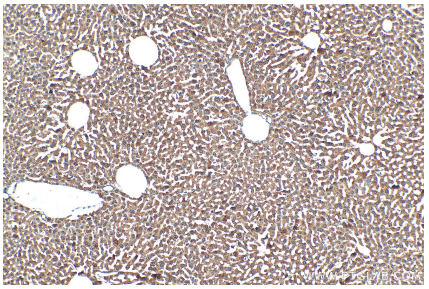
For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

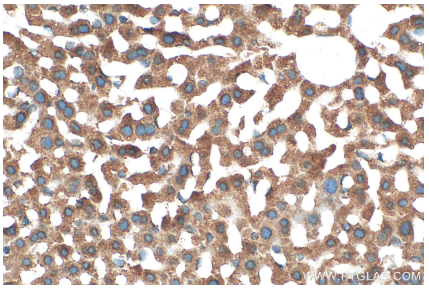
Selected Validation Data



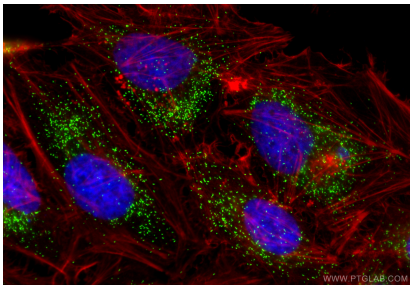
Various lysates were subjected to SDS PAGE followed by western blot with 10594-1-AP (PEX14 antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



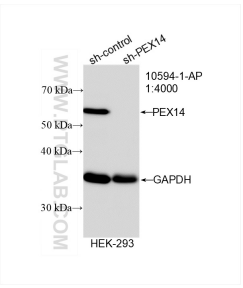
Immunohistochemical analysis of paraffin-embedded mouse liver tissue slide using 10594-1-AP (PEX14 antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



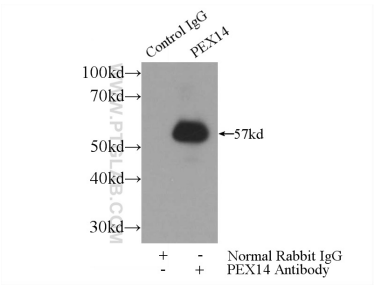
Immunohistochemical analysis of paraffin-embedded mouse liver tissue slide using 10594-1-AP (PEX14 antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



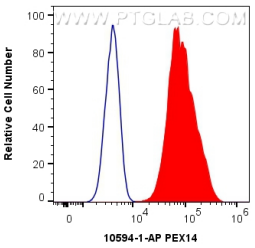
Immunofluorescent analysis of (4% PFA) fixed HeLa cells using PEX14 antibody (10594-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-phalloidin (red).



WB result of PEX14 antibody (10594-1-AP; 1:4000; incubated at room temperature for 1.5 hours) with sh-Control and sh-PEX14 transfected HEK-293 cells.



IP result of anti-PEX14 (IP:10594-1-AP, 3ug; Detection:10594-1-AP 1:500) with mouse liver tissue lysate 4000ug.



1X10^6 HeLa cells were intracellularly stained with 0.4 ug Anti-Human PEX14 (10594-1-AP) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Isotype Control. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer.