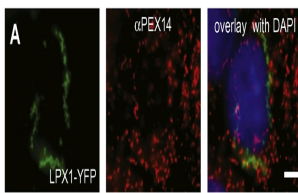
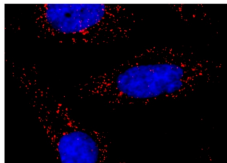


PEX14 Polyclonal Antibody

Catalog number: 10594-1-AP
Size: 32 µg/150 µl
Source: Rabbit
Isotype: IgG
Synonyms:
PEX14; dJ734G22.2, NAPP2,
Peroxin 14, PEX14, Pex14p,
PTS1 receptor docking protein

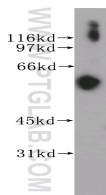


The antibody 10594-1-AP stain the Peroxisomes of the COS7 cell transfected with YFP-Lpx1. IF result in Paper with PMID:21741480, Dr. Sven Thoms.



HeLa cells, formaldehyde fixation, permeabilization by Triton X-100, anti-PEX14 dilution 1:200, secondary antibody Cy3-labelled anti-rabbit, embedding medium with DAPI, epifluorescence microscopy. Image recorded by Tom Kietthut and Sven Thoms.

IF result of anti-PEX14 (10594-1-AP) in HeLa cell by Dr. Sven Thoms. Peroxisome Red, Nuclear Blue.



human liver tissue were subjected to SDS PAGE followed by western blot with 10594-1-AP(PEX14 antibody) at dilution of 1:500

Background

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 peroxisomal 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.

Applications

Tested applications:	ELISA, IF, WB, IP, IHC, FC
Cited applications:	IF, IHC, WB
Species specificity:	Human, Mouse, Rat; other species not tested.
Cited species:	Human, monkey, mouse
Calculated PEX14 MW:	41 kDa
Observed PEX14 MW:	57 kDa
Positive WB detected in	Human liver tissue
Positive IP detected in	Mouse liver tissue
Positive IHC detected in	Human liver cancer tissue, human cervical cancer tissue
Positive IF detected in	HeLa cells, COS7 cells
Positive FC detected in	HepG2 cells
Recommended dilution:	WB: 1:200-1:1000 IP: 1:200-1:2000 IHC: 1:20-1:200 IF: 1:20-1:200 FC: N/A

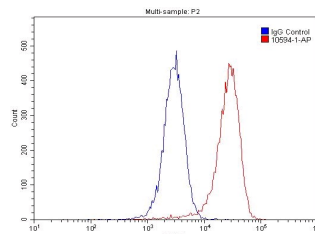
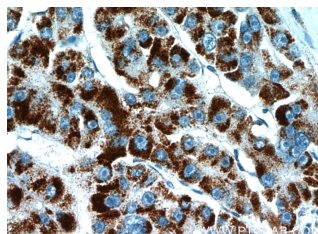
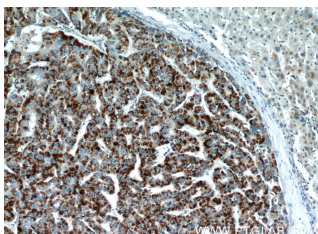
Application key: WB = Western blotting, IHC = Immunohistochemistry, IF = Immunofluorescence, IP = Immunoprecipitation

Immunogen information

Immunogen:	Ag0932
GenBank accession number:	BC006327
Gene ID (NCBI):	5195
Full name:	Peroxisomal biogenesis factor 14

Product information

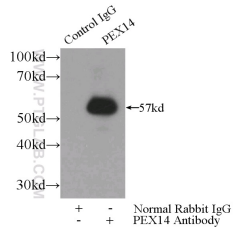
Purification method:	Antigen affinity purification
Storage:	PBS with 0.1% sodium azide and 50% glycerol pH 7.3. Store at -20°C.



Immunohistochemical of paraffin-embedded human liver cancer using 10594-1-AP(PEX14 antibody) at dilution of 1:50 (under 10x lens)

Immunohistochemical of paraffin-embedded human liver cancer using 10594-1-AP(PEX14 antibody) at dilution of 1:50 (under 40x lens)

1X10⁶ HepG2 cells were stained with .2ug PEX14 antibody (10594-1-AP, red) and control antibody (blue). Fixed with 4% PFA blocked with 3% BSA (30 min). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:1500.



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