

For Research Use Only

# PEX14 (human specific) Recombinant antibody

Catalog Number: 80196-1-RR



## Basic Information

### Catalog Number:

80196-1-RR

### Size:

100ul, Concentration: 700 ug/ml by Nanodrop;

### 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:

Protein A purification

### CloneNo.:

6K5

### Recommended Dilutions:

WB: 1:2000-1:14000

IHC: 1:200-1:800

IF/ICC: 1:50-1:500

FC (Intra): 0.40 ug per 10<sup>6</sup> cells in a 100 µl suspension

## Applications

### Tested Applications:

WB, IHC, IF/ICC, FC (Intra), ELISA

### Species Specificity:

human

**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: HeLa cells, HEK-293 cells, HepG2 cells, Jurkat cells

IHC: human liver cancer tissue, human kidney tissue

IF/ICC: HeLa 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 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.

This antibody is specific to human PEX14. It can't detect mouse or rat PEX14.

## 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

\*\*\* 20ul sizes contain 0.1% BSA

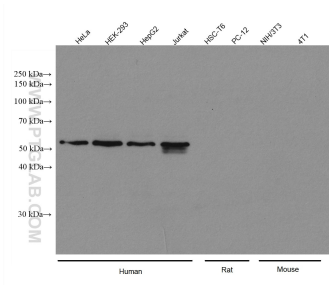
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

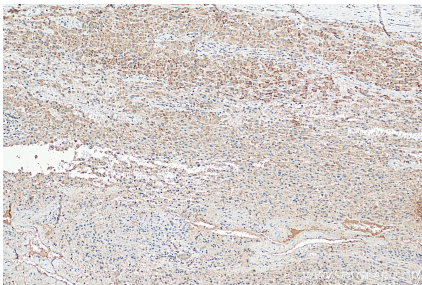
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
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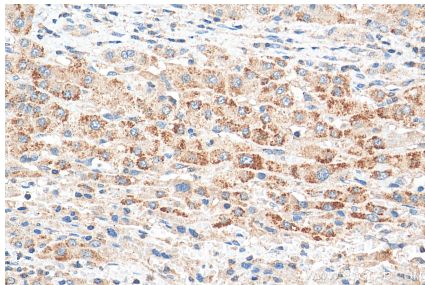
Selected Validation Data



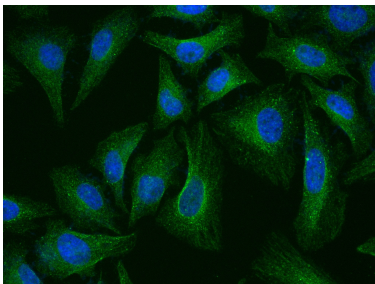
Various lysates were subjected to SDS PAGE followed by western blot with 80196-1-RR (PEX14 (human specific) antibody) at dilution of 1:7000 incubated at room temperature for 1.5 hours.



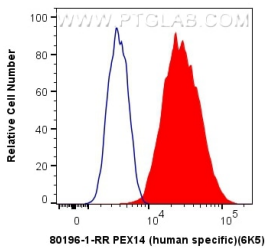
Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 80196-1-RR (PEX14 (human specific) antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



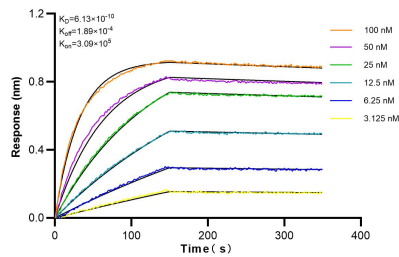
Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 80196-1-RR (PEX14 (human specific) antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using PEX14 (human specific) antibody (80196-1-RR, Clone: 6K5 ) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).



1X10<sup>6</sup> HeLa cells were intracellularly stained with 0.4 ug Anti-Human PEX14 (human specific) (80196-1-RR, Clone:6K5) 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 (PF00011-C).



Bilayer interferometry (BLI) kinetic assays of 80196-1-RR against PEX14 (human specific) were performed. The affinity constant is 0.613 nM.