

For Research Use Only

# PEX19 Polyclonal antibody

Catalog Number: 14713-1-AP

12 Publications



## Basic Information

### Catalog Number:

14713-1-AP

### Size:

150ul, Concentration: 350 ug/ml by Nanodrop and 267 ug/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG6434

### GenBank Accession Number:

BC000496

### GeneID (NCBI):

5824

### UNIPROT ID:

P40855

### Full Name:

peroxisomal biogenesis factor 19

### Calculated MW:

33 kDa

### Observed MW:

35-40 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:1000-1:4000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:50-1:500

## Applications

### Tested Applications:

WB, IP, IHC, ELISA

### Cited Applications:

WB, IF

### Species Specificity:

human, mouse

### Cited Species:

human, mouse, arabidopsis

**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 : Jurkat cells, K-562 cells, mouse heart tissue

IP : K-562 cells,

IHC : human liver cancer tissue,

## Background Information

Peroxisins (PEXs) are proteins that are essential for the assembly of functional peroxisomes. PEX19 gene is necessary for early peroxisomal biogenesis. It acts both as a cytosolic chaperone and as an import receptor for peroxisomal membrane proteins (PMPs) (PMID: 14709540). PEX19 may bind newly synthesized PMPs and facilitate their insertion into the peroxisome membrane (PMID: 107044440). The peroxisome biogenesis disorders (PBDs) are a group of genetically heterogeneous autosomal recessive, lethal diseases characterized by multiple defects in peroxisome function. Defects in this gene are a cause of Zellweger syndrome (ZWS), as well as peroxisome biogenesis disorder complementation group 14 (PBD-CG14) (PMID:20683989) (PMID:10051604).

## Notable Publications

Author	Pubmed ID	Journal	Application
Suyu Yue	36250004	Front Mol Biosci	WB
Jun Zheng	34747980	J Cell Biol	WB
Weiwei Cui	33731874	Cell Death Differ	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

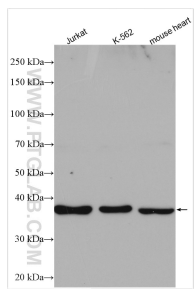
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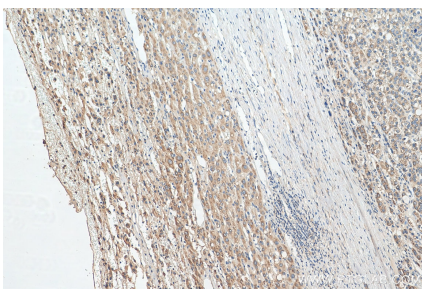
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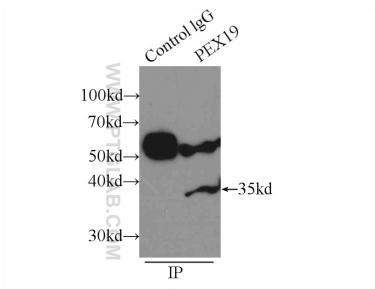
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 14713-1-AP (PEX19 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 14713-1-AP (PEX19 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-PEX19 (IP:14713-1-AP, 3ug; Detection:14713-1-AP 1:300) with K-562 cells lysate 2400ug.