

For Research Use Only

# PEX5 Monoclonal antibody

Catalog Number: 66309-1-Ig

Featured Product

1 Publications



## Basic Information

<b>Catalog Number:</b> 66309-1-Ig	<b>GenBank Accession Number:</b> BC010621	<b>Purification Method:</b> Protein G purification
<b>Size:</b> 150ul, Concentration: 1500 µg/ml by Nanodrop and 1000 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 5830	<b>CloneNo.:</b> 1C2C3
<b>Source:</b> Mouse	<b>Full Name:</b> peroxisomal biogenesis factor 5	<b>Recommended Dilutions:</b> WB 1:500-1:2000 IHC 1:50-1:500
<b>Isotype:</b> IgG1	<b>Calculated MW:</b> 631 aa, 70 kDa	
<b>Immunogen Catalog Number:</b> AG3268	<b>Observed MW:</b> 70-80 kDa	

## Applications

### Tested Applications:

IHC, WB, ELISA

### Cited Applications:

WB

### Species Specificity:

human, pig, rat

### Cited Species:

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 : pig brain tissue, HEK-293 cells, fetal human brain tissue

IHC : human liver tissue, human kidney tissue

## Background Information

The peroxisomal targeting signal type1 (PTS1) receptor, PEX5, is one member of peroxins (PEXs) which are proteins required for peroxisome assembly. PEX5 and PEX7 function as receptors that recognize PTS1- and PTS2- containing proteins, respectively, and PEX5 binds PTS1 through its C-terminal 40-kDa tetratricopeptide repeat domain. It is a predominantly cytoplasmic, partly peroxisomal protein that appears to shuttle between these compartments as it mediates the import of PTS1-containing proteins. PEX5 has been reported to interact with PEX10, PEX12, PEX13, and PEX14. Defects in PEX5 are a cause of Zellweger syndrome (ZWS), which is a lethal peroxisome biogenesis disorder.

## Notable Publications

Author	Pubmed ID	Journal	Application
Léa P Wilhelm	36215693	EMBO J	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

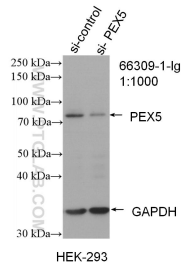
For technical support and original validation data for this product please contact:

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

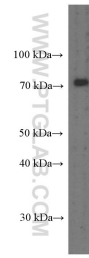
E: proteintech@ptglab.com  
W: ptglab.com

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

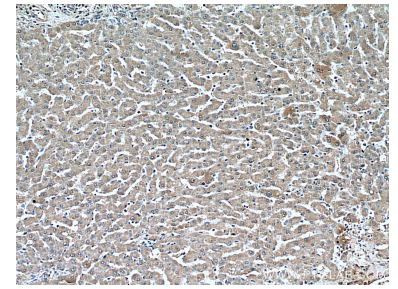
## Selected Validation Data



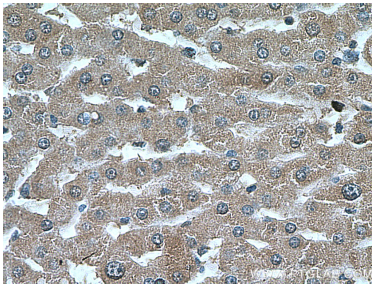
WB result of PEX5 antibody (66309-1-Ig: 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-PEX5 transfected HEK-293 cells.



pig brain tissue were subjected to SDS PAGE followed by western blot with 66309-1-Ig (PEX5 Antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 66309-1-Ig (PEX5 Antibody) at dilution of 1:200 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 66309-1-Ig (PEX5 Antibody) at dilution of 1:200 (under 40x lens).