For Research Use Only

PEX5 Polyclonal antibody

Catalog Number:12545-1-AP Featured Product 12 Publications

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Basic Information

Catalog Number:
12545-1-AP

Size:
150ul , Concentration: 500 μg/ml by Nanodrop and 313 μg/ml by Bradford method using BSA as the standard;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG3268

GenBank Accession Number:
BC010621

GeneID (NCBI):
5830

Full Name:
peroxisomal biogenesis factor 5

Calculated MW:
631 aa, 70 kDa

Observed MW:
68-80 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:500-1:2000
IP 0.5-4.0 ug for IP and 1:500-1:1000 for WB
IHC 1:100-1:400
IF 1:50-1:500

Applications

Tested Applications:
FC, IF, IHC, IP, WB, ELISA

Cited Applications:
FC, IF, IP, WB

Species Specificity:
human, mouse, rat

Cited Species:
human, rat, mouse

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 : human brain tissue, L02 cells, mouse kidney tissue, mouse brain tissue, human kidney tissue, HEK-293 cells

IP : mouse kidney tissue,

IHC : human kidney tissue, mouse brain tissue

IF : HeLa cells,

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. This antibody recognizes endogenous PEX5, which migrates with an apparent molecular mass of 80 kDa (PMID: 7790377).

Notable Publications

Author	Pubmed ID	Journal	Application
Shuo Geng	34499622	JCI Insight	WB,FC
Jiangwei Zhang	26344566	Nat Cell Biol	WB, IF
Minghui Wang	34174269	Eur J Pharmacol	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
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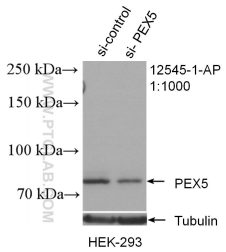
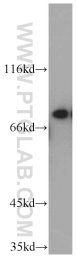
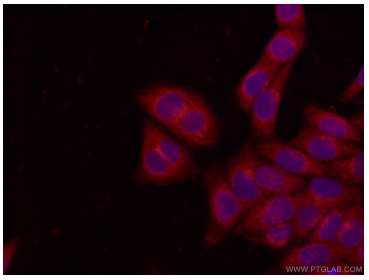
Selected Validation Data



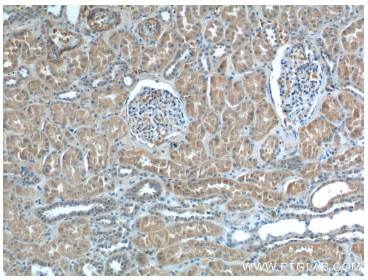
WB result of PEX5 antibody (12545-1-AP; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-PEX5 transfected HEK-293 cells.



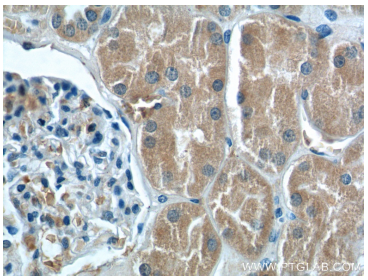
human brain tissue were subjected to SDS PAGE followed by western blot with 12545-1-AP (PEX5 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



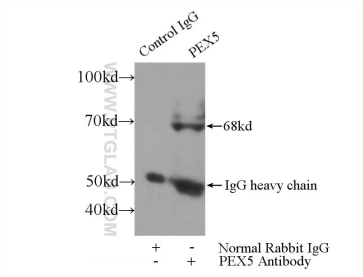
Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using 12545-1-AP (PEX5 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



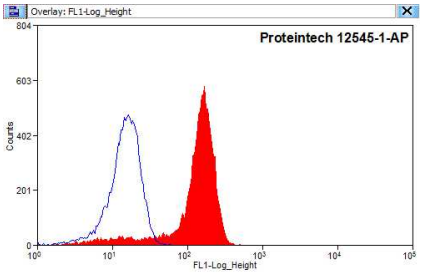
Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 12545-1-AP (PEX5 Antibody) at dilution of 1:200 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 12545-1-AP (PEX5 Antibody) at dilution of 1:200 (under 40x lens).



IP Result of anti-PEX5 (IP:12545-1-AP, 4ug; Detection:12545-1-AP 1:500) with mouse kidney tissue lysate 4000ug.



1X10^6 HEK-293 cells were stained with 0.2ug PEX5 antibody (12545-1-AP, red) and control antibody (blue). Cells were fixed with 4% PFA and permeabilized with 0.1% Triton X-100. Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:1500.