

PEX5 Polyclonal Antibody

Catalog number: 12545-1-AP

Size: 28 µg/150 µl

Source: Rabbit

Isotype: IgG

Synonyms:

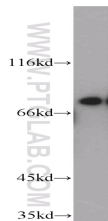
PEX5; FLJ50634, FLJ50721,

FLJ51948, Peroxin 5,

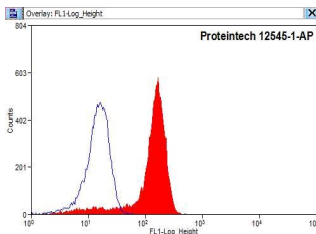
Peroxisome receptor 1, PEX5,

PTS1 BP, PTS1 receptor,

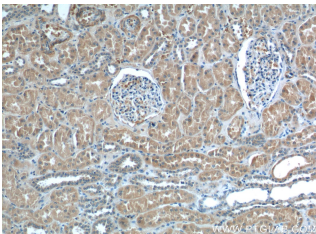
PTS1R, PXR1



human brain tissue were subjected to SDS PAGE followed by western blot with 12545-1-AP(PEX5 antibody) at dilution of 1:500



1X10⁶ HEK-293 cells were stained with 0.2µg PEX5 antibody (12545-1-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.



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

Background

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).

Applications

Tested applications:	ELISA, WB, IP, IHC, FC
Cited applications:	IF, WB
Species specificity:	Human, Mouse, Rat; other species not tested.
Cited species:	Human
Calculated PEX5 MW:	631aa, 70 kDa
Observed PEX5 MW:	80 kDa
Positive WB detected in	Human brain tissue, human kidney tissue, L02 cells, mouse brain tissue, mouse kidney tissue
Positive IP detected in	Mouse kidney tissue
Positive IHC detected in	Human kidney tissue
Positive FC detected in	HEK-293 cells
Recommended dilution:	WB: 1:500-1:5000 IP: 1:200-1:2000 IHC: 1:20-1:200 FC: N/A

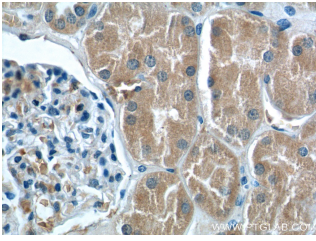
Application key: WB = Western blotting, IHC = Immunohistochemistry, IF = Immunofluorescence, IP = Immunoprecipitation

Immunogen information

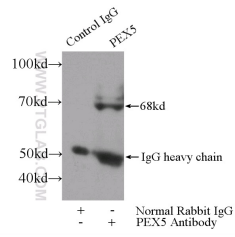
Immunogen:	Ag3268
GenBank accession number:	BC010621
Gene ID (NCBI):	5830
Full name:	Peroxisomal biogenesis factor 5

Product information

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



Immunohistochemistry 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.