Peroxin 19 Rabbit pAb

CatalogNo: YT3674

Key Features

Host Species	Reactivity	Applications
• Rabbit	• Human,Rat,Mouse,	• WB,IHC,IF,ELISA

MW	Isotype
• 33kD (Observed)	• IgG

Recommended Dilution Ratios

WB 1:500-1:2000
IHC 1:100-1:300
ELISA 1:5000
IF 1:50-200

Storage

Storage*	-15°C to -25°C/1 year(Do not lower than -25°C)
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Basic Information

Clonality	Polyclonal

Immunogen Information

Immunogen	The antiserum was produced against synthesized peptide derived from human PEX19. AA range:219-268
Specificity	Peroxin 19 Polyclonal Antibody detects endogenous levels of Peroxin 19 protein.

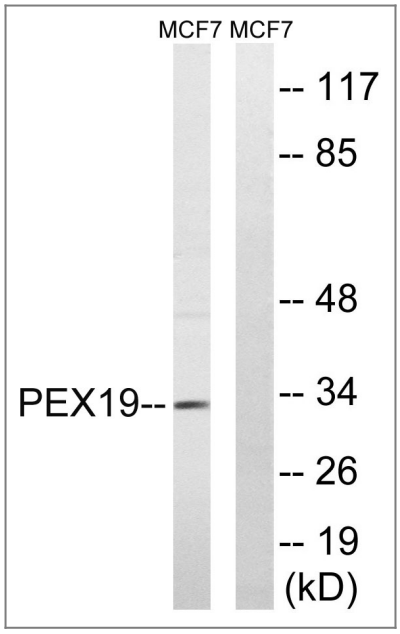
Target Information

Gene name	PEX19
Protein Name	Peroxisomal biogenesis factor 19

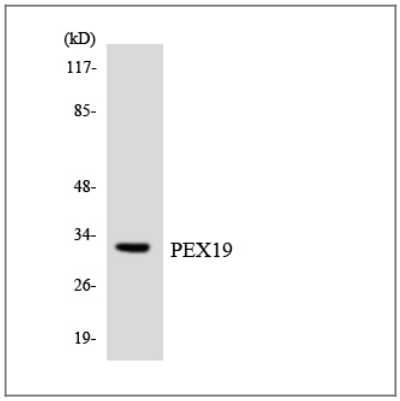
Organism	Gene ID	UniProt ID
Human	5824;	P40855;
Mouse		Q8VCI5;

Cellular Localization	Cytoplasm . Peroxisome membrane ; Lipid-anchor ; Cytoplasmic side . Mainly cytoplasmic. Some fraction membrane-associated to the outer surface of peroxisomes. .
Tissue specificity	Ubiquitously expressed. Isoform 1 is strongly predominant in all tissues except in utero where isoform 2 is the main form.
Function	Alternative products:Experimental confirmation may be lacking for some isoforms,Disease:Defects in PEX19 are a cause of Zellweger syndrome (ZWS) [MIM:214100]. ZWS is a fatal peroxisome biogenesis disorder characterized by dysmorphic facial features, hepatomegaly, ocular abnormalities, renal cysts, hearing impairment, profound psychomotor retardation, severe hypotonia and neonatal seizures. Death occurs within the first year of life.,Disease:Defects in PEX19 are the cause of peroxisome biogenesis disorder complementation group 14 (PBD-CG14) [MIM:600279]; also known as PBD-CGJ. PBD refers to a group of peroxisomal disorders arising from a failure of protein import into the peroxisomal membrane or matrix. The PBD group is comprised of four disorders: Zellweger syndrome (ZWS), neonatal adrenoleukodystrophy (NALD), infantile Refsum disease (IRD), and classical rhizomelic chondrodysplasia punctata (RCDP). ZWS, NALD and IRD are distinct from RCDP and constitute a clinical continuum of overlapping phenotypes known as the Zellweger spectrum. The PBD group is genetically heterogeneous with at least 14 distinct genetic groups as concluded from complementation studies.,Function:Necessary for early peroxisomal biogenesis. Acts both as a cytosolic chaperone and as an import receptor for peroxisomal membrane proteins (PMPs). Binds and stabilizes newly synthesized PMPs in the cytoplasm by interacting with their hydrophobic membrane-spanning domains, and targets them to the peroxisome membrane by binding to the integral membrane protein PEX3. Excludes CDKN2A from the nucleus and prevents its interaction with MDM2, which results in active degradation of TP53.,similarity:Belongs to the peroxin-19 family.,subcellular location:Mainly cytoplasmic. Some fraction membrane-associated to the outer surface of peroxisomes.,subunit:Interacts with a broad range of peroxisomal membrane proteins, including PEX3, PEX10, PEX11A, PEX11B, PEX12, PEX13, PEX14 and PEX16, PXMP2/PMP22, PXMP4/PMP24, SLC25A17/PMP34, ABCD1/ALDP, ABCD2/ALDRP, and ABCD3/PMP70. Also interacts with the tumor suppressor CDKN2A/p19ARF.,tissue specificity:Ubiquitously expressed. Isoform 1 is strongly predominant in all tissues except in utero where isoform 2 is the main form.,

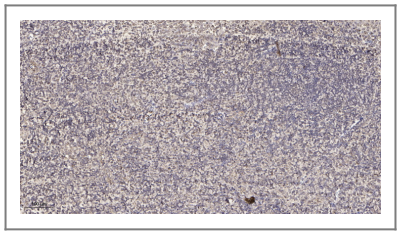
Validation Data



Western blot analysis of lysates from MCF-7 cells, using PEX19 Antibody. The lane on the right is blocked with the synthesized peptide.



Western blot analysis of the lysates from HT-29 cells using PEX19 antibody.



Immunohistochemical analysis of paraffin-embedded human tonsil. 1, Antibody was diluted at 1:200(4° overnight). 2, Tris-EDTA,pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 30min).

Contact information

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Please scan the QR code to access additional product information: **Peroxin 19 Rabbit pAb**