Peroxin 5 Rabbit pAb

CatalogNo: YT3677

Key Features

Host Species	Reactivity	Applications
• Rabbit	• Human,Mouse	• WB,IHC

MW	Isotype
• 70kD (Observed)	• IgG

Recommended Dilution Ratios

WB 1:500-2000
IHC 1:50-300

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	Synthesized peptide derived from Peroxin 5 . at AA range: 540-620
Specificity	Peroxin 5 Polyclonal Antibody detects endogenous levels of Peroxin 5 protein.

Target Information

Gene name	PEX5

Protein Name Peroxisomal targeting signal 1 receptor

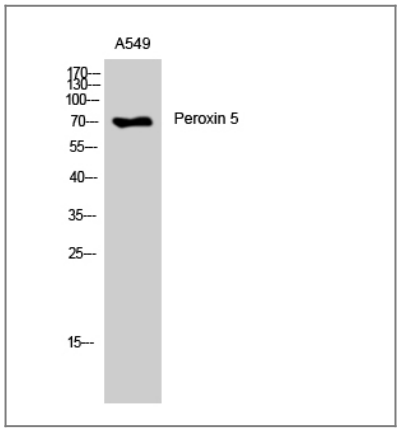
Organism	Gene ID	UniProt ID
Human	5830;	P50542;
Mouse	19305;	O09012;

Cellular Localization Cytoplasm . Peroxisome membrane ; Peripheral membrane protein. Its distribution appears to be dynamic. It is probably a cycling receptor found mainly in the cytoplasm and as well associated to the peroxisomal membrane through a docking factor (PEX13).

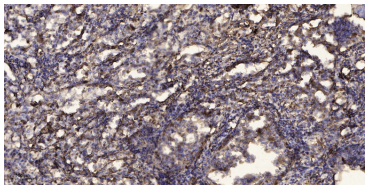
Tissue specificity Detected in heart, brain, placenta, lung, liver, skeletal muscle, kidney and pancreas.

Function Disease:Defects in PEX5 are a cause of adrenoleukodystrophy neonatal (NALD) [MIM:202370]. NALD is a peroxisome biogenesis disorder (PBD) characterized by the accumulation of very long-chain fatty acids, adrenal insufficiency and mental retardation. Inheritance is autosomal recessive.,Disease:Defects in PEX5 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 PEX5 may be a cause of infantile Refsum disease (IRD) [MIM:266510]. IRD is a mild peroxisome biogenesis disorder (PBD). Clinical features include early onset, mental retardation, minor facial dysmorphism, retinopathy, sensorineural hearing deficit, hepatomegaly, osteoporosis, failure to thrive, and hypocholesterolemia. The biochemical abnormalities include accumulation of phytanic acid, very long chain fatty acids (VLCFA), di- and trihydroxycholestanoic acid and pipecolic acid.,Function:Binds to the C-terminal PTS1-type tripeptide peroxisomal targeting signal (SKL-type) and plays an essential role in peroxisomal protein import.,similarity:Belongs to the peroxisomal targeting signal receptor family.,similarity:Contains 7 TPR repeats.,subcellular location:Its distribution appears to be dynamic. It is probably a cycling receptor found mainly in the cytoplasm and as well associated to the peroxisomal membrane through a docking factor (PEX13).,subunit:Interacts with PEX7 and PEX13 (By similarity). Interacts with PEX12 and PEX14.,tissue specificity:Detected in heart, brain, placenta, lung, liver, skeletal muscle, kidney and pancreas.,

Validation Data



Western Blot analysis of A549 cells using Peroxin 5 Polyclonal Antibody



Immunohistochemical analysis of paraffin-embedded human Squamous cell carcinoma of lung. 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, 45min).

Contact information

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