Peroxin 1 Rabbit pAb

CatalogNo: YT3669

Key Features

Host Species
- Rabbit

Reactivity
- Human,Mouse

Applications
- IHC,IF,ELISA

MW
- 143kD (Calculated)

Isotype
- IgG

Recommended Dilution Ratios

IHC 1:100-1:300
ELISA 1:10000
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 PEX1. AA range:1234-1283
Specificity	Peroxin 1 Polyclonal Antibody detects endogenous levels of Peroxin 1 protein.

Target Information

Gene name PEX1

Protein Name Peroxisome biogenesis factor 1

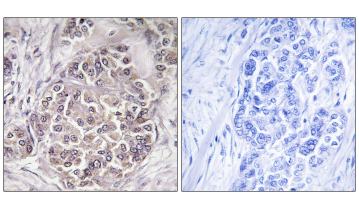
Organism	Gene ID	UniProt ID
Human	5189;	O43933;
Mouse	71382;	Q5BL07;

Cellular Localization Cytoplasm. Peroxisome membrane. Associated with peroxisomal membranes.

Tissue specificity Brain,Lymph,Trachea,

Function Disease:Defects in PEX1 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.,Disease:Defects in PEX1 are 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.,Disease:Defects in PEX1 are the cause of peroxisome biogenesis disorder complementation group 1 (PBD-CG1) [MIM:602136]; also known as PBD-CGE. 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:Required for stability of PEX5 and protein import into the peroxisome matrix. Anchored by PEX26 to peroxisome membranes, possibly to form heteromeric AAA ATPase complexes required for the import of proteins into peroxisomes.,PTM:Phosphorylated upon DNA damage, probably by ATM or ATR.,similarity:Belongs to the AAA ATPase family.,subcellular location:Associated with peroxisomal membranes.,subunit:Interacts directly with PEX6. Interacts indirectly with PEX26, via its interaction with PEX6.,

Validation Data



Immunohistochemistry analysis of paraffin-embedded human breast carcinoma tissue, using PEX1 Antibody. The picture on the right is blocked with the synthesized peptide.

Contact information

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Please scan the QR code to access additional product information:
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