PEX14 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	PEX14, Polyclonal Antibody
Full Product Name	PEX14 (Center) Rabbit pAb
Product Gene Name	anti-PEX14 antibody
Product Synonym Names	Peroxisomal membrane protein PEX14; PTS1 receptor-docking protein; Peroxin-14; Peroxisomal membrane anchor protein PEX14; PEX14
Clonality	Polyclonal
Isotype	Ig
Clone Number	RB31100
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Supplied in PBS with 0.09% (W/V) Sodium Azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Purity/Purification	Affinity Purified
OMIM	601791
3D Structure	ModBase 3D Structure for O75381
Immunogen	This PEX14 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 121-150 amino acids from the central region of human PEX14.
Cellular Localization	Membrane, Peroxisome
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-PEX14 antibody	Western Blot (WB), Flow Cytometry (FC/FACS)
Application Notes for anti-PEX14 antibody	WB: 1:1000 FC/FACS: 1:10-50
Related Product Information for anti-PEX14 antibody	MBS8551752 is an antibody targeting PEX14. Also known as PEX14 (Center) Rabbit pAb. Reactive in Human, Mouse. Host: Rabbit.
Other Notes	Small volumes of anti-PEX14 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PEX14. It may not necessarily be applicable to this product.

NCBI GI #	4758896
NCBI GeneID	5195
NCBI Accession #	NP_004556.1
UniProt Primary Accession #	O75381

UniProt Related Accession #	O75381
GenBank Nucleotide #	NP_004556.1
NCBI Official Full Name	peroxisomal membrane protein PEX14
NCBI Official Synonym Full Names	peroxisomal biogenesis factor 14
NCBI Official Symbol	PEX14
NCBI Official Synonym Symbols	NAPP2; PBD13A; Pex14p; dJ734G22.2
UniProt Protein Name	Peroxisomal membrane protein PEX14
UniProt Synonym Protein Names	PTS1 receptor-docking protein; Peroxin-14; Peroxisomal membrane anchor protein PEX14
Protein Family	Peroxisomal membrane protein
UniProt Gene Name	PEX14
UniProt Entry Name	PEX14_HUMAN
NCBI Protein Information	peroxisomal membrane protein PEX14
NCBI Summary for PEX14	This gene encodes an essential component of the peroxisomal import machinery. The protein is integrated into peroxisome membranes with its C-terminus exposed to the cytosol, and interacts with the cytosolic receptor for proteins containing a PTS1 peroxisomal targeting signal. The protein also functions as a transcriptional corepressor and interacts with a histone deacetylase. A mutation in this gene results in one form of Zellweger syndrome. [provided by RefSeq, Jul 2008]
UniProt Comments for PEX14	PEX14: Component of the peroxisomal translocation machinery with PEX13 and PEX17. Interacts with both the PTS1 and PTS2 receptors. Binds directly to PEX17. Defects in PEX14 are the cause of peroxisome biogenesis disorder complementation group K (PBD-CGK). PBD-CGK is a peroxisomal disorder arising from a failure of protein import into the peroxisomal membrane or matrix. The peroxisome biogenesis disorders (PBD group) are genetically heterogeneous with at least 14 distinct genetic groups as concluded from complementation studies. Include disorders are: 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 (PBD- ZSS). Defects in PEX14 are a cause of Zellweger syndrome (ZWS). 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. Belongs to the peroxin-14 family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Adaptor/scaffold Chromosomal Location of Human Ortholog: 1p36.22 Cellular Component: peroxisomal membrane; protein complex; intracellular membrane-bound organelle; membrane; nucleolus; integral to membrane; peroxisome; intracellular; nucleus Molecular Function: protein binding; microtubule binding; beta-tubulin binding; protein N-terminus binding; transcription corepressor activity; receptor binding Biological Process: peroxisome organization and biogenesis; negative regulation of transcription factor activity; protein import into peroxisome matrix; protein complex assembly; negative regulation of protein binding; negative regulation of transcription, DNA-dependent; protein import into peroxisome matrix, translocation; protein homooligomerization Disease: Peroxisome Biogenesis Disorder 13a (zellweger)
Research Articles on PEX14	**1.** Data suggest that soluble/cytosolic PEX5 interacts with PEX14/PEX13 complex, a model for the docking/translocation module (DTM) of the peroxisomal matrix protein translocon; PEX14/PEX13 complex appears to function in peroxisomal membrane as large cavity into which cytosolic PEX5 can enter to release its cargo. (PEX = peroxisomal biogenesis factor)

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