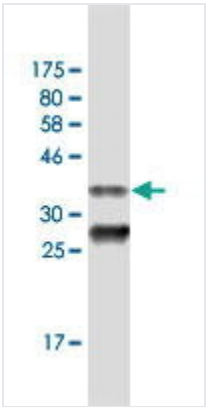
PEX3 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	PEX3, Monoclonal Antibody
Full Product Name	PEX3 (Peroxisomal Biogenesis Factor 3, Peroxin-3, Peroxisomal Assembly Protein PEX3, DKFZp686N14184, FLJ13531) (FITC)
Product Gene Name	anti-PEX3 antibody
Clonality	Monoclonal
Isotype	IgG2b,k
Clone Number	3C2
Host	Mouse
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Fluorescein isothiocyanate (FITC).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human PEX3.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and stor at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions ca be made in assay buffer. Caution: FITC conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial after thawing an prior to removing the cap.
Molecular Weight	42kDa
OMIM	603164
3D Structure	ModBase 3D Structure for P56589
Immunogen	Partial recombinant corresponding to aa271-374 from human PEX3 (NP_003621) with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	LESPDFSTVLNTCLNRGFSRLLDNMAEFFRPTEQDLQHGNSMNSLSSVSLPLAKIIPIVNGQIHSVCSETPSHFVQDLLTMEQVKDFAANVYEAFSTPQQL
Conjugate	FITC
Product Categories/Family for anti-PEX3 antibody	Antibodies; Obesity Proteins
Applications Tested/Suitable for anti-PEX3 antibody	ELISA (EIA), Western Blot (WB)
Application Notes for anti-PEX3 antibody	Applications are based on unconjugated antibody.

Related Product Information for anti-PEX3 antibody	Involved in peroxisome biosynthesis and integrity. Assembles membrane vesicles before the matrix proteins are translocated. As a docking factor for PEX19, is necessary for the import of peroxisomal membrane proteins in the peroxisomes.
Other Notes	Small volumes of anti-PEX3 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.
Searchable Terms for PEX3 purchase	MBS6148796 is an antibody targeting PEX3. Also known as PEX3 (Peroxisomal Biogenesis Factor 3, Peroxin-3, Peroxisomal Assembly Protein PEX3, DKFZp686N14184, FLJ13531) (FITC). Reactive in Human. Host: Mouse.



Western Blot (WB) of anti-PEX3 antibody
Western Blot detection against Immunogen (37.44kD).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PEX3. It may not necessarily be applicable to this product.

NCBI GI #	4505727
NCBI GeneID	8504
NCBI Accession #	NP_003621
UniProt Primary Accession #	P56589
UniProt Related Accession #	P56589
GenBank Nucleotide #	NM_003630
NCBI Official Full Name	peroxisomal biogenesis factor 3
NCBI Official Synonym Full Names	peroxisomal biogenesis factor 3
NCBI Official Symbol	PEX3
NCBI Official Synonym Symbols	TRG18; PBD10A; PBD10B
UniProt Protein Name	Peroxisomal biogenesis factor 3
UniProt Synonym Protein Names	Peroxin-3; Peroxisomal assembly protein PEX3
Protein Family	Peroxisomal biogenesis factor
UniProt Gene Name	PEX3
UniProt Entry Name	PEX3_HUMAN
NCBI Protein Information	peroxisomal biogenesis factor 3

NCBI Summary for PEX3	The product of this gene is involved in peroxisome biosynthesis and integrity. It assembles membrane vesicles before the matrix proteins are translocated. Peroxins (PEXs) are proteins that are essential for the assembly of functional peroxisomes. The peroxisome biogenesis disorders (PBDs) are a group of genetically heterogeneous autosomal recessive, lethal diseases characterized by multiple defects in peroxisome function. The peroxisomal biogenesis disorders are a heterogeneous group with at least 14 complementation groups and with more than 1 phenotype being observed in cases falling into particular complementation groups. Although the clinical features of PBD patients vary, cells from all PBD patients exhibit a defect in the import of one or more classes of peroxisomal matrix proteins into the organelle. Defects in this gene are a cause Zellweger syndrome (ZWS). [provided by RefSeq, Oct 2008]
UniProt Comments for PEX3	PEX3: Involved in peroxisome biosynthesis and integrity. Assembles membrane vesicles before the matrix proteins are translocated. As a docking factor for PEX19, is necessary for the import of peroxisomal membrane proteins in the peroxisomes. Defects in PEX3 are the cause of peroxisome biogenesis disorder complementation group 12 (PBD-CG12); also known as PBD-CGG. 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. Defects in PEX3 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-3 family. Protein type: Membrane protein, multi-pass; Transporter; Vesicle; Transporter, ABC family; Membrane protein, integral Chromosomal Location of Human Ortholog: 6q24.2 Cellular Component: nucleoplasm; peroxisomal membrane; integral to peroxisomal membrane; protein complex; intracellular membrane-bound organelle; membrane; endoplasmic reticulum; peroxisome; cytosol Molecular Function: protein dimerization activity; protein binding; lipid binding; amino acid transmembrane transporter activity Biological Process: peroxisome organization and biogenesis; protein import into peroxisome membrane; peroxisome membrane biogenesis; transmembrane transport Disease: Peroxisome Biogenesis Disorder 10a (zellweger)
Research Articles on PEX3	**1.** Thus, PEX19 and PEX3 peroxisome biogenesis factors provide an alternative posttranslational route for membrane insertion of the reticulon homology domain-containing proteins, implying that endoplasmic reticulum membrane shaping and peroxisome biogenesis may be coordinated.
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