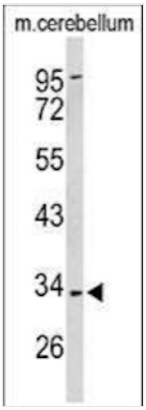
PXMP3 Antibody – Rabbit Polyclonal

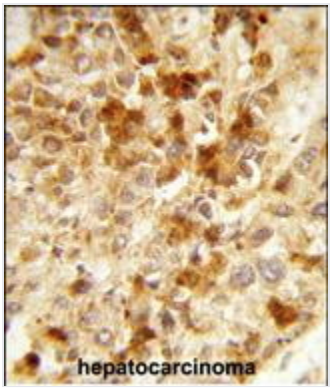
PRODUCT OVERVIEW

Product Name	PXMP3, Polyclonal Antibody
Full Product Name	PXMP3, ID (PEX2, PAF1, PMP3, PMP35, PXMP3, RNF72, Peroxisome biogenesis factor 2, 35kD peroxisomal membrane protein, Peroxin-2, Peroxisomal membrane protein 3, Peroxisome assembly factor 1, RING finger protein 72) (FITC)
Product Gene Name	anti-PXMP3 antibody
Product Synonym Gene Name	PEX2
Product Synonym Names	PEX2; PAF1; PMP3; PMP35; PXMP3; RNF72; Peroxisome biogenesis factor 2; 35kD peroxisomal membrane protein; Peroxin-2; Peroxisomal membrane protein 3; Peroxisome assembly factor 1; RING finger protein 72
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
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 and Peptide Affinity Chromatography.
Specificity	Recognizes human PXMP3. Species Crossreactivity: mouse
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 store 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 can be made in assay buffer. Caution: FITC conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	34,843 Da
Chromosome Location	Chromosome: 8; NC_000008.10 (77892494..77913280, complement). Location: 8q21.1
OMIM	170993
3D Structure	ModBase 3D Structure for P28328
Immunogen	KLH-conjugated synthetic peptide mapping to a fragment of residues within amino acids 165-194 in the central region of human PXMP3.
Conjugate	FITC
Note	Preservative Free
Special Handling	Light sensitive
Product Categories/Family for anti-PXMP3 antibody	Antibodies; Obesity Proteins
Applications Tested/Suitable for anti-PXMP3 antibody	Immunohistochemistry (IHC) Paraffin, Western Blot (WB), Flow Cytometry (FC/FACS), FLISA
Application Notes for anti-PXMP3 antibody	Applications are based on unconjugated antibody.

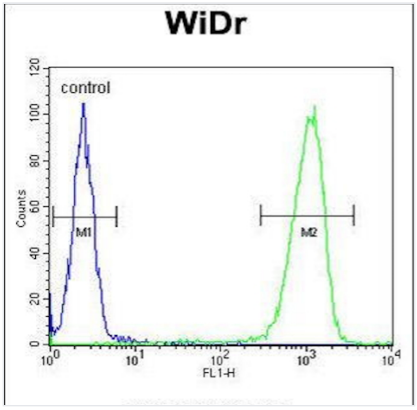
Related Product Information for anti-PXMP3 antibody	MBS6339297 is an antibody targeting PXMP3. Also known as PXMP3, ID (PEX2, PAF1, PMP3, PMP35, PXMP3, RNF72, Peroxisome biogenesis factor 2, 35kD peroxisomal membrane protein, Peroxin-2, Peroxisomal membrane protein 3, Peroxisome assembly factor 1, RING finger protein 72) (FITC). Reactive in Human, Mouse. Host: Rabbit.
Product References and Citations for anti-PXMP3 antibody	1. Steinberg, S., et.al., Mol. Genet. Metab. 83 (3), 252-263 (2004). 2. Biermanns, M., et.al., Eur. J. Cell Biol. 82 (4), 155-162 (2003).
Other Notes	Small volumes of anti-PXMP3 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.



Western Blot (WB) of anti-PXMP3 antibody
Western blot analysis of mouse cerebellum tissue lysates (35ug/lane) usingMBS649562. PXMP3 (arrow) was detected usingMBS649562.



Immunohistochemistry (IHC) of anti-PXMP3 antibody
Formalin-fixed and paraffin-embedded human hepatocarcinoma reacted withMBS649562, which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of MBS649562 for immunohistochemistry.



Flow Cytometry (FC/FACS) of anti-PXMP3 antibody
Flow cytometric analysis of WiDr cells (right histogram) using MBS649562 compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PXMP3. It may not necessarily be applicable to this product.

NCBI GI #	4506343
NCBI GeneID	5828
NCBI Accession #	NP_000309.1
UniProt Primary Accession #	P28328
UniProt Secondary Accession #	Q567S6; Q9BW41
UniProt Related Accession #	P28328
GenBank Nucleotide #	NM_000318.2

NCBI Official Full Name	peroxisomal biogenesis factor 2
NCBI Official Synonym Full Names	peroxisomal biogenesis factor 2
NCBI Official Symbol	PEX2
NCBI Official Synonym Symbols	PAF1; PMP3; ZWS3; PBD5A; PBD5B; PMP35; PXMP3; RNF72
UniProt Protein Name	Peroxisome biogenesis factor 2
UniProt Synonym Protein Names	35 kDa peroxisomal membrane protein; Peroxin-2; Peroxisomal membrane protein 3; Peroxisome assembly factor 1; PAF-1; RING finger protein 72
UniProt Gene Name	PEX2
UniProt Synonym Gene Names	PAF1; PMP3; PMP35; PXMP3; RNF72; PAF-1
UniProt Entry Name	PEX2_HUMAN
NCBI Protein Information	peroxisomal biogenesis factor 2; RING finger protein 72; peroxisome assembly factor 1; peroxisome assembly factor-1; peroxisome biogenesis factor 2; 35 kDa peroxisomal membrane protein; peroxisomal membrane protein 3, 35kDa
NCBI Summary for PXMP3	This gene encodes an integral peroxisomal membrane protein required for peroxisome biogenesis. The protein is thought to be involved in peroxisomal matrix protein import. Mutations in this gene result in one form of Zellweger syndrome and infantile Refsum disease. Alternative splicing results in multiple transcript variants encoding the same protein. [provided by RefSeq, Jul 2008]
UniProt Comments for PXMP3	PXMP3: Somewhat implicated in the biogenesis of peroxisomes. Defects in PEX2 are the cause of peroxisome biogenesis disorder complementation group 5 (PBD-CG5); also known as PBD-CGF. 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 PEX2 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. Defects in PEX2 are a cause of infantile Refsum disease (IRD). 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. Belongs to the pex2/pex10/pex12 family. Protein type: Membrane protein, integral; Cell development/differentiation; Ubiquitin conjugating system; Motility/polarity/chemotaxis; Membrane protein, multi-pass Chromosomal Location of Human Ortholog: 8q21.1 Cellular Component: peroxisomal membrane; integral to peroxisomal membrane; membrane Molecular Function: protein binding; zinc ion binding Biological Process: bile acid biosynthetic process; cholesterol homeostasis; fatty acid beta-oxidation; protein destabilization; very-long-chain fatty acid metabolic process; negative regulation of fibroblast proliferation; peroxisome organization and biogenesis; regulation of cholesterol biosynthetic process; neuron migration; protein import into peroxisome matrix; negative regulation of transcription from RNA polymerase II promoter; negative regulation of epithelial cell proliferation Disease: Peroxisome Biogenesis Disorder 5a (zellweger); Peroxisome Biogenesis Disorder 5b
Research Articles on PXMP3	**1.** Ischemic wound healing is retarded in mice subjected to recombinant PEX2 injections or viral transduction with PEX2-lentivurus.

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