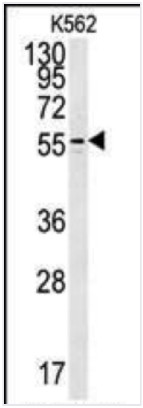
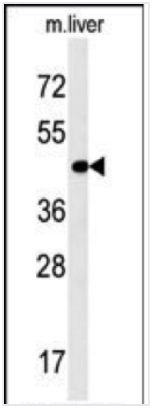
PAOX Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

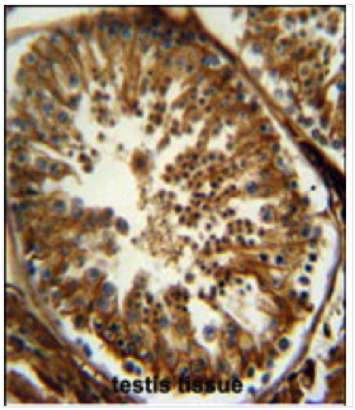
Product Name	PAOX, Polyclonal Antibody
Full Product Name	PAOX, ID (PAOX, PAO, Peroxisomal N(1)-acetyl-spermine/spermidine oxidase, Polyamine oxidase) (MaxLight 490)
Product Gene Name	anti-PAOX antibody
Product Synonym Names	PAOX; PAO; Peroxisomal N(1)-acetyl-spermine/spermidine oxidase; Polyamine oxidase
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 MaxLight490.
Purity/Purification	Purified by Protein A and Peptide Affinity Chromatography.
Specificity	Recognizes human PAOX. Species Crossreactivity: mouse.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight490 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	4,499 Da
OMIM	AF226657 mRNA
3D Structure	ModBase 3D Structure for Q6QHF9
Immunogen	KLH-conjugated synthetic peptide mapping to a fragment of residues within amino acids 467-496 from the central region of human PAOX. Swiss/UniProt Accession: Q6QHF9. Cellular location: peroxisome, cytoplasm.
Conjugate	MaxLight490
Note	Preservative Free
Product Categories/Family for anti-PAOX antibody	Antibodies; Enzymes; Oxidase
Applications Tested/Suitable for anti-PAOX antibody	Immunohistochemistry (IHC) Paraffin, Western Blot (WB), FLISA
Application Notes for anti-PAOX antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-PAOX antibody	PAOX is widely expreesed and not detected in spleen tissue. Expressed at lower level in neoplastic tissues.
Other Notes	Small volumes of anti-PAOX 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 PAOX purchase	MBS6330709 is an antibody targeting PAOX. Also known as PAOX, ID (PAOX, PAO, Peroxisomal N(1)-acetyl-spermine/spermidine oxidase, Polyamine oxidase) (MaxLight 490). Reactive in Human, Mouse. Host: Rabbit.



Western Blot (WB) of anti-PAOX antibody
Western Blot analysis of K562 cell line lysates (35ug/lane) usingMBS6007512. This demonstrates MBS6007512 detected the PAOX protein (arrow).



Western Blot (WB) of anti-PAOX antibody
Western Blot analysis of mouse liver tissue lysates (35ug/lane) usingMBS6007512. This demonstrates MBS6007512 detected the PAOX protein (arrow).



Immunohistochemistry (IHC) of anti-PAOX antibody
Immunohistochemistry analysis of formalin fixed and paraffin embedded human testis tissue using MBS6007512 followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of MBS6007512 for immunohistochemistry.

ADDITIONAL DETAILS

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

NCBI GI #	46397308
NCBI GeneID	196743
NCBI Accession #	NP_997010.1
NCBI Related Accession #	NP_997011.1; NP_690875.1
UniProt Primary Accession #	Q6QHF9
UniProt Secondary Accession #	Q5VWY0; Q6QHF5; Q6QHF6; Q6QHF7; Q6QHF8; Q6QHG0; Q6QHG1; Q6QHG2; Q6QHG3; Q6QHG4; D3DXI6
UniProt Related Accession #	Q6QHF9
GenBank Nucleotide #	NM_207127.2
NCBI Official Full Name	peroxisomal N(1)-acetyl-spermine/spermidine oxidase isoform 2
NCBI Official Synonym Full Names	polyamine oxidase (exo-N4-amino)
NCBI Official Symbol	PAOX
NCBI Official Synonym Symbols	PAO
UniProt Protein Name	Peroxisomal N(1)-acetyl-spermine/spermidine oxidase
UniProt Synonym Protein Names	Polyamine oxidase

Protein Family	Peroxisomal N(1)-acetyl-spermine/spermidine oxidase
UniProt Gene Name	PAOX
UniProt Synonym Gene Names	PAO
NCBI Protein Information	peroxisomal N(1)-acetyl-spermine/spermidine oxidase
UniProt Comments for PAOX	Flavoenzyme which catalyzes the oxidation of N1-acetylspermine to spermidine and is thus involved in the polyamine back-conversion. Can also oxidize N1-acetylspermidine to putrescine. Substrate specificity: N1-acetylspermine = N1-acetylspermidine > N1,N(12)-diacylspermine >> spermine. Does not oxidize spermidine. Plays an important role in the regulation of polyamine intracellular concentration and has the potential to act as a determinant of cellular sensitivity to the antitumor polyamine analogs.MiscellaneousOxidizes N1-acetylated polyamines on the exo-side of their N4-amino groups. Plant PAO oxidizes spermine on the endo-side of the N4-nitrogen ().
Research Articles on PAOX	**1.** copy number gain in the polyamine oxidase (PAOX) gene locus was accompanied by a coordinated transcriptional up-regulation in Primary myelofibrosis patients
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