10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

PAOX Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP5864c

Specification

PAOX Antibody (Center) - Product Information

Application	**WB, IHC-P,E**
Primary Accession	Q6QHF9
Other Accession	NP_997010.1, NP_997011.1, NP_690875.1
Reactivity	**Human, Mouse**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**55513**
Antigen Region	**467-496**

PAOX Antibody (Center) - Additional Information

Gene ID 196743

Other Names
Peroxisomal N(1)-acetyl-spermine/spermidine oxidase, Polyamine oxidase, PAOX, PAO

Target/Specificity
This PAOX antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 467-496 amino acids from the Central region of human PAOX.

Dilution
WB~~1:1000
IHC-P~~1:50~100

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
PAOX Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

PAOX Antibody (Center) - Protein Information

Name PAOX

Synonyms PAO

Function Flavoenzyme which catalyzes the oxidation of N(1)- acetylspermine to spermidine and is thus involved in the polyamine back-conversion (PubMed:12477380). Can also oxidize N(1)-acetylspermidine to putrescine. Substrate specificity: N(1)- acetylspermine = N(1)-acetylspermidine > N(1),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 (PubMed:12477380).

Cellular Location
Peroxisome. Cytoplasm

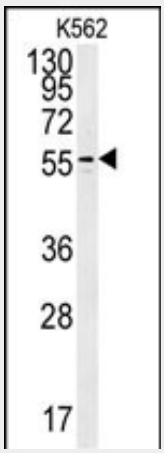
Tissue Location
Widely expressed. Not detected in spleen. Expressed at lower level in neoplastic tissues.

PAOX Antibody (Center) - Protocols

Provided below are standard protocols that you may find useful for product applications.

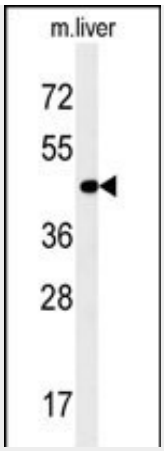
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

PAOX Antibody (Center) - Images

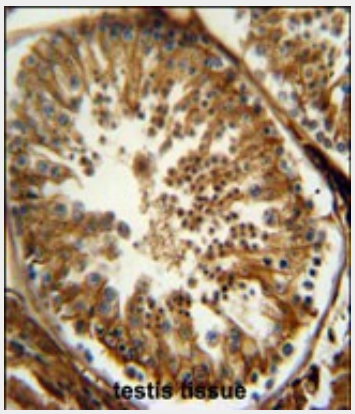


PAOX Antibody (Center) (Cat. #AP5864c) western blot analysis in K562 cell line lysates (35ug/lane).This demonstrates the PAOX antibody detected the PAOX protein (arrow).

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PAOX Antibody (Center) (Cat. #AP5864c) western blot analysis in mouse liver tissue lysates (35ug/lane).This demonstrates the PAOX antibody detected the PAOX protein (arrow).



PAOX antibody (Center) (Cat. #AP5864c) immunohistochemistry analysis in formalin fixed and paraffin embedded human testis tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the PAOX antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.