

## PAOX Rabbit pAb

CatalogNo: YT5098

### Key Features

#### Host Species

- Rabbit

#### Reactivity

- Human, Mouse

#### Applications

- WB, IHC, IF, ELISA

#### MW

- 70kD (Observed)

#### Isotype

- IgG

### Storage

**Storage\*** -15°C to -25°C/1 year (Do not lower than -25°C)

**Formulation** Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

### Recommended Dilution Ratios

**WB 1:500-1:2000**

**IHC: 1:100-300**

**ELISA 1:40000**

**IF 1:50-200**

### Basic Information

**Clonality** Polyclonal

### Immunogen Information

**Immunogen** Synthesized peptide derived from PAOX . at AA range: 260-340

**Specificity** PAOX Polyclonal Antibody detects endogenous levels of PAOX protein.

### Target Information

**Gene name** PAOX

**Protein Name** Peroxisomal N(1)-acetyl-spermine/spermidine oxidase

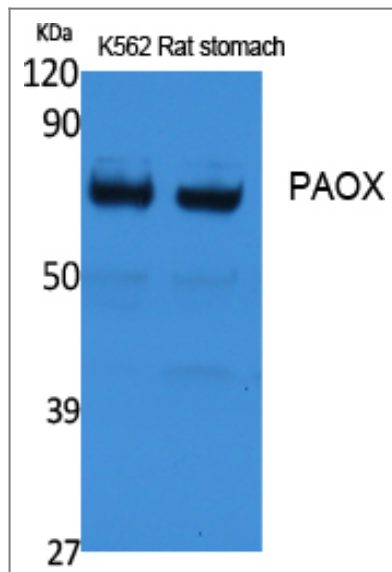
Organism	Gene ID	UniProt ID
Human	<a href="#">196743</a> ;	<a href="#">Q6QHF9</a> ;
Mouse		<a href="#">Q8C0L6</a> ;

**Cellular Localization** Peroxisome . Cytoplasm .

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

**Function** Catalytic activity:N(1),N(12)-diacetylspermine + O(2) + H(2)O = N(1)-acetylspermidine + 3-acetamidobutanal + H(2)O(2).,Catalytic activity:N(1)-acetylspermidine + O(2) + H(2)O = putrescine + 3-acetamidopropanal + H(2)O(2).,Catalytic activity:N(1)-acetylspermine + O(2) + H(2)O = spermidine + 3-acetamidopropanal + H(2)O(2).,cofactor: Binds 1 FAD per subunit.,Function:Flavoenzyme which catalyzes the oxidation of N(1)-acetylspermine to spermidine and is thus involved in the polyamine back-conversion. 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.,induction:By polyamine analogs.,miscellaneous:Oxidizes N(1)-acetylated polyamines on the exo-side of their N(4)-amino groups. Plant PAO oxidizes spermine on the endo-side of the N(4)-nitrogen.,pathway:Amine and polyamine metabolism; spermine metabolism.,similarity:Belongs to the flavin monoamine oxidase family.,subunit:Monomer.,tissue specificity:Widely expressed. Not detected in spleen. Expressed at lower level in neoplastic tissues.,

## Validation Data



Western Blot analysis of extracts from rat stomach, K562 cells, using PAOX Polyclonal Antibody. Secondary antibody(catalog#:RS0002) was diluted at 1:20000

## Contact information

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Please scan the QR code to access additional product information:  
**PAOX Rabbit pAb**

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For Research Use Only. Not for Use in Diagnostic Procedures.

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