

## PAOX Polyclonal Antibody

<b>Catalog No :</b>	YT5098
<b>Reactivity :</b>	Human;Mouse
<b>Applications :</b>	WB;IHC;IF;ELISA
<b>Target :</b>	PAOX
<b>Fields :</b>	>>Peroxisome
<b>Gene Name :</b>	PAOX
<b>Protein Name :</b>	Peroxisomal N(1)-acetyl-spermine/spermidine oxidase
<b>Human Gene Id :</b>	196743
<b>Human Swiss Prot No :</b>	Q6QHF9
<b>Mouse Swiss Prot No :</b>	Q8C0L6
<b>Immunogen :</b>	Synthesized peptide derived from PAOX . at AA range: 260-340
<b>Specificity :</b>	PAOX Polyclonal Antibody detects endogenous levels of PAOX protein.
<b>Formulation :</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source :</b>	Polyclonal, Rabbit,IgG
<b>Dilution :</b>	WB 1:500 - 1:2000. IHC: 1:100-300 ELISA: 1:40000.. IF 1:50-200
<b>Purification :</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Concentration :</b>	1 mg/ml
<b>Storage Stability :</b>	-15°C to -25°C/1 year(Do not lower than -25°C)

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**Observed Band :** 70kD

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**Background :**

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.,

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**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 polyami

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**Subcellular****Location :**Peroxisome . Cytoplasm .

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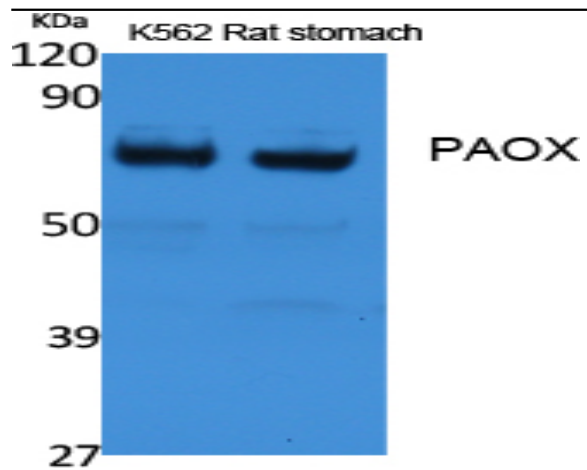
**Expression :**Widely expressed. Not detected in spleen. Expressed at lower level in neoplastic tissues.

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**Products Images**

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