

PAOX Polyclonal Antibody

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

Observed Band : 70kD

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.,

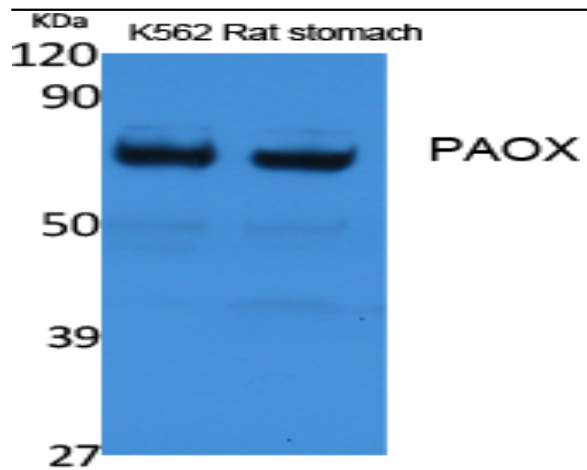
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Subcellular**Location :**Peroxisome . Cytoplasm .

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

Products Images



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