

**AOX1 Polyclonal Antibody**  
**Catalog # AP68426****Specification**

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**AOX1 Polyclonal Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">Q06278</a>
Reactivity	Human, Rat
Host	Rabbit
Clonality	Polyclonal

**AOX1 Polyclonal Antibody - Additional Information****Gene ID** 316**Other Names**

AOX1; AO; Aldehyde oxidase

**Dilution**

WB~~Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/40000. Not yet tested in other applications.

**Format**

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.

**Storage Conditions**

-20°C

**AOX1 Polyclonal Antibody - Protein Information****Name** AOX1 ([HGNC:553](#))**Synonyms** AO**Function**

Oxidase with broad substrate specificity, oxidizing aromatic azaheterocycles, such as N1-methylnicotinamide, N-methylphthalazinium and phthalazine, as well as aldehydes, such as benzaldehyde, retinal, pyridoxal, and vanillin. Plays a key role in the metabolism of xenobiotics and drugs containing aromatic azaheterocyclic substituents. Participates in the bioactivation of prodrugs such as famciclovir, catalyzing the oxidation step from 6-deoxypenciclovir to penciclovir, which is a potent antiviral agent. Is probably involved in the regulation of reactive oxygen species homeostasis. May be a prominent source of superoxide generation via the one-electron reduction of molecular oxygen. May also catalyze nitric oxide (NO) production via the reduction of nitrite to NO with NADH or aldehyde as electron donor. May play a role in adipogenesis.

**Cellular Location**

Cytoplasm

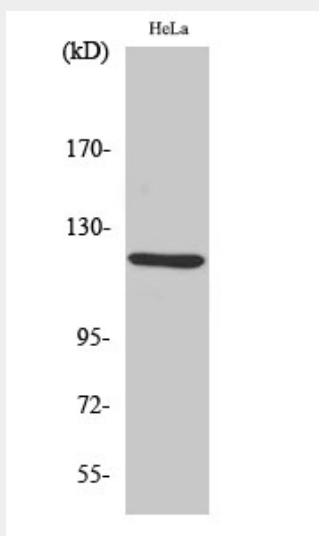
**Tissue Location**

Abundant in liver, expressed in adipose tissue and at lower levels in lung, skeletal muscle, pancreas. In contrast to mice, no significant gender difference in AOX1 expression level (at protein level).

**AOX1 Polyclonal Antibody - Protocols**

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**AOX1 Polyclonal Antibody - Images****AOX1 Polyclonal Antibody - Background**

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