

HAO1 Mouse mAb
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Catalog # AP94096**Specification**

HAO1 Mouse mAb - Product Information

Application	WB, IHC-P
Primary Accession	O9WU19
Reactivity	Mouse
Host	Rabbit
Clonality	Monoclonal
Calculated MW	41001

HAO1 Mouse mAb - Additional Information**Gene ID** 15112**Other Names**

2-Hydroxyacid oxidase 1, HAOX1, 1.1.3.15, Glycolate oxidase, GOX, Glyoxylate oxidase, Hao1
{ECO:0000312|MGI:MGI:96011}

Format

0.01M TBS(pH7.4), 0.09% (W/V) sodium azide and 50% Glyce

Storage

Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

HAO1 Mouse mAb - Protein Information**Name** Hao1 {ECO:0000312|MGI:MGI:96011}**Function**

Broad substrate specificity (S)-2-hydroxy-acid oxidase that preferentially oxidizes glycolate (PubMed:9891009). The glyoxylate produced by the oxidation of glycolate can then be utilized by alanine- glyoxylate aminotransferase for the peroxisomal synthesis of glycine; this pathway appears to be an important step for the detoxification of glyoxylate which, if allowed to accumulate, may be metabolized to oxalate with formation of kidney stones (By similarity). Can also catalyze the oxidation glyoxylate, and long chain hydroxyacids such as 2-hydroxyhexadecanoate and 2-hydroxyoctanoate (By similarity). Active in vitro with the artificial electron acceptor 2,6-dichlorophenolindophenol (DCIP), but O₂ is believed to be the physiological electron acceptor, leading to the production of H₂O₂ (PubMed:9891009).

Cellular Location

Peroxisome matrix {ECO:0000250|UniProtKB:Q9UJM8}.

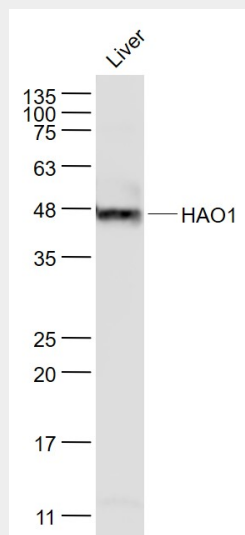
Tissue Location

Liver..

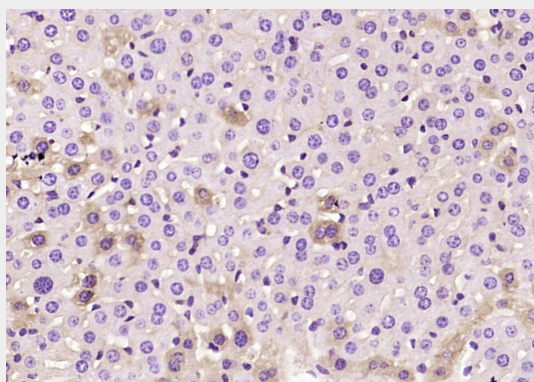
HAO1 Mouse mAb - Protocols

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](#)

HAO1 Mouse mAb - Images

Sample: Liver(Rat) Lysate at 40 ug Primary: Anti- HAO1 (AP94096) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Mouse IgG at 1/20000 dilution Predicted band size: 41 kD Observed band size: 42 kD



Paraformaldehyde-fixed, paraffin embedded (mouse liver tissue); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide

for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (HAO1) Monoclonal Antibody, Unconjugated (ascites of AP94096 Mix) at 1:2000 overnight at 4°C, followed by a conjugated secondary (sp-0024) for 20 minutes and DAB staining.

HAO1 Mouse mAb - Background

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.