

HAO1 Monoclonal Antibody(Mix)
Catalog # AP63521**Specification****HAO1 Monoclonal Antibody(Mix) - Product Information**

Application	WB
Primary Accession	O9UJM8
Reactivity	Mouse, Rat
Host	Mouse
Clonality	Monoclonal

HAO1 Monoclonal Antibody(Mix) - Additional Information

Gene ID 54363

Other Names

Hydroxyacid oxidase 1; HAOX1; Glycolate oxidase; GOX

Dilution

WB~~WB: 1:1000-2000 IF 1:200 IHC 1:50-300

Format

PBS, pH 7.4, containing 0.09% (W/V) sodium azide as Preservative and 50% Glycerol.

Storage Conditions

-20°C

HAO1 Monoclonal Antibody(Mix) - Protein Information**Name** HAO1 {ECO:0000303|PubMed:10978532, ECO:0000312|HGNC:HGNC:4809}**Function**

Broad substrate specificity (S)-2-hydroxy-acid oxidase that preferentially oxidizes glycolate (PubMed:10777549, PubMed:10978532, PubMed:17669354, PubMed:18215067). 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 (PubMed:10978532, PubMed:17669354). Can also catalyze the oxidation of glyoxylate, and long chain hydroxyacids such as 2-hydroxyhexadecanoate and 2-hydroxyoctanoate, albeit with much lower catalytic efficiency (PubMed:10777549, PubMed:17669354, PubMed:18215067).

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:10777549, PubMed:10978532, PubMed:17669354, PubMed:18215067). Is not active on L-lactate and 2-hydroxybutanoate (PubMed:10777549).

Cellular Location

Peroxisome matrix.

Tissue Location

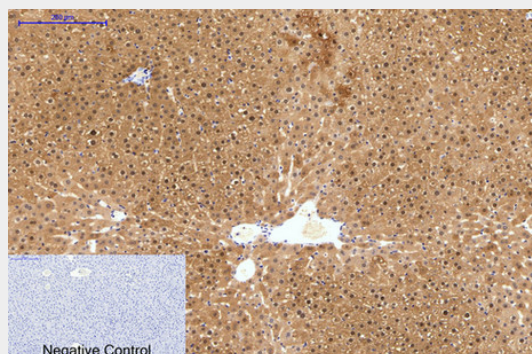
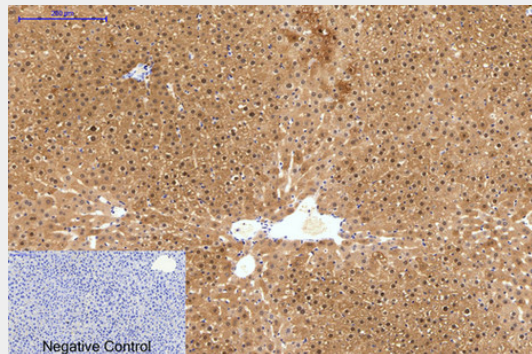
Highly expressed in liver.

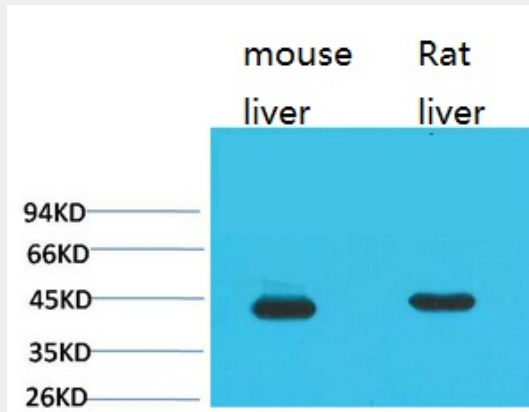
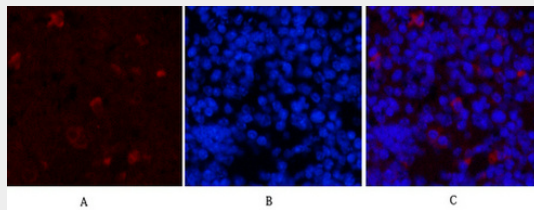
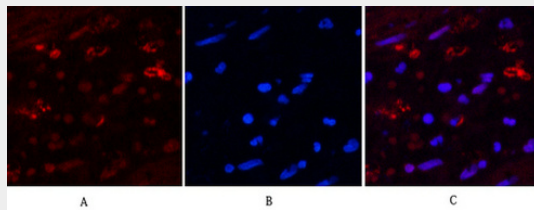
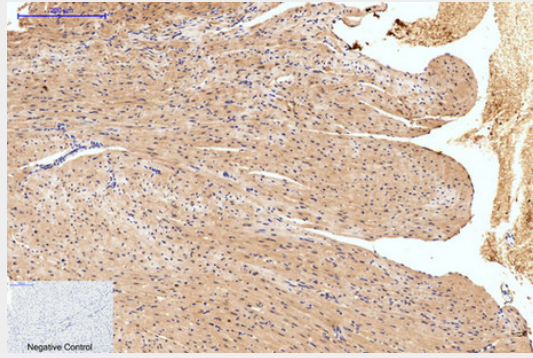
HAO1 Monoclonal Antibody(Mix) - Protocols

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 Monoclonal Antibody(Mix) - Images





HAO1 Monoclonal Antibody(Mix) - Background

Has 2-hydroxyacid oxidase activity. Most active on the 2-carbon substrate glycolate, but is also active on 2-hydroxy fatty acids, with high activity towards 2-hydroxy palmitate and 2- hydroxy octanoate.