



# HAO1 Monoclonal Antibody(Mix)

Catalog No	BYab-14239
Isotype	IgG
Reactivity	Mouse;Rat
Applications	WB;IHC;IF;
Gene Name	HAO1
Protein Name	Hydroxyacid oxidase 1
Immunogen	Recombinant Protein of HAO1
Specificity	The antibody detects endogenous HAO1 protein.
Formulation	PBS, pH 7.4, containing 0.5%BSA, 0.02% sodium azide as Preservative and 50% Glycerol.
Source	Monoclonal, Mouse
Purification	The antibody was affinity-purified from mouse ascites by affinity-chromatography using epitope-specific immunogen.
Dilution	WB: 1:1000-2000 IF 1:200 IHC 1:50-300
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	Hydroxyacid oxidase 1; HAOX1; Glycolate oxidase; GOX
Observed Band	41kD
Cell Pathway	Peroxisome matrix .
Tissue Specificity	Highly expressed in liver.
Function	catalytic activity:(S)-2-hydroxy acid + O(2) = 2-oxo acid + H(2)O(2).,cofactor:FMN.,function:Has 2-hydroxyacid oxidase activity. Most active on the 2-carbon substrate glycolate, but is also active on 2-hydroxy fatty acids.,pathway:Organic acid metabolism; glycolic acid degradation; 3-phospho-D-glyceric acid from glycolic acid: step 1/4.,similarity:Belongs to the FMN-dependent alpha-hydroxy acid dehydrogenase family.,similarity:Contains 1 FMN hydroxy acid dehydrogenase domain.,tissue specificity:Liver.,
Background	This gene is one of three related genes that have 2-hydroxyacid oxidase activity yet differ in encoded protein amino acid sequence, tissue expression and substrate preference. Subcellular location of the encoded protein is the

Nanjing BYabscience technology Co.,Ltd



peroxisome. Specifically, this gene is expressed primarily in liver and pancreas and the encoded protein is most active on glycolate, a two-carbon substrate. The protein is also active on 2-hydroxy fatty acids. The transcript detected at high levels in pancreas may represent an alternatively spliced form or the use of a multiple near-consensus upstream polyadenylation site. [provided by RefSeq, Jul 2008],

**matters needing attention**

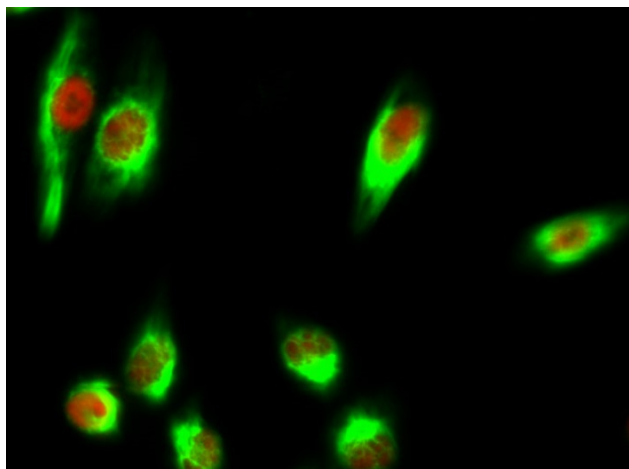
Avoid repeated freezing and thawing!

**Usage suggestions**

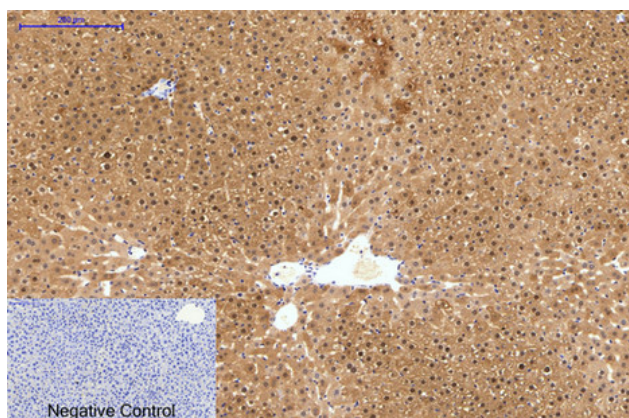
This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



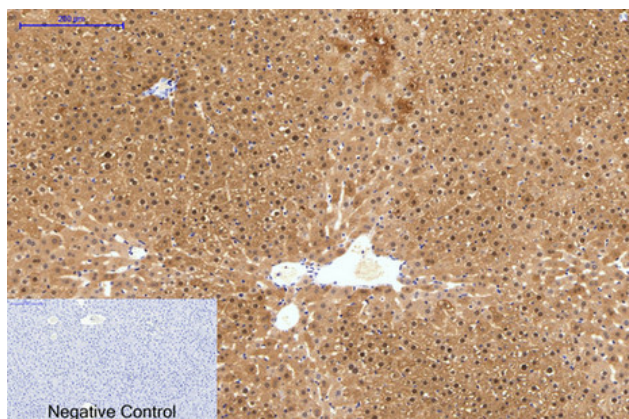
## Products Images



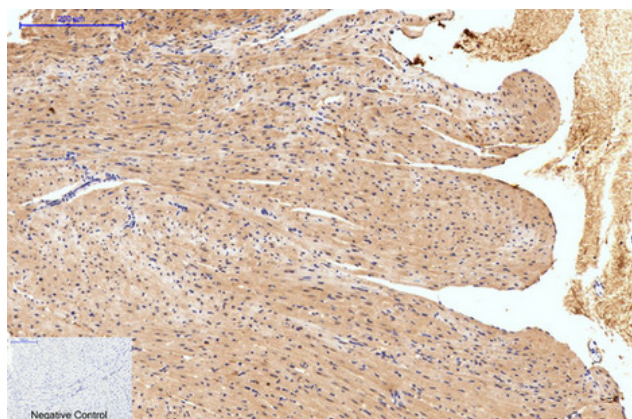
Immunofluorescence analysis of Hela cell. 1, Chk2 (phospho Thr68) Polyclonal Antibody (red) was diluted at 1:200 (4° overnight). HAO1 Monoclonal Antibody (Mix) (green) was diluted at 1:200 (4° overnight). 2, Goat Anti Rabbit Alexa Fluor 594 Catalog: RS3611 was diluted at 1:1000 (room temperature, 50min). Goat Anti Mouse Alexa Fluor 488 Catalog: RS3208 was diluted at 1:1000 (room temperature, 50min).



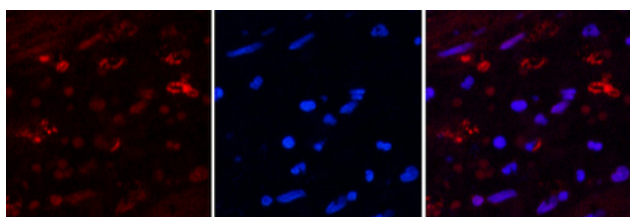
Immunohistochemical analysis of paraffin-embedded Human-liver tissue. 1, HAO1 Monoclonal Antibody (Mix) was diluted at 1:200 (4°C, overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval (>98°C, 20min). 3, Secondary antibody was diluted at 1:200 (room temperature, 30min). Negative control was used by secondary antibody only.



Immunohistochemical analysis of paraffin-embedded Rat-liver tissue. 1, HAO1 Monoclonal Antibody (Mix) was diluted at 1:200 (4°C, overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval (>98°C, 20min). 3, Secondary antibody was diluted at 1:200 (room temperature, 30min). Negative control was used by secondary antibody only.



Immunohistochemical analysis of paraffin-embedded Mouse-heart tissue. 1, HAO1 Monoclonal Antibody(Mix) was diluted at 1:200(4°C, overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval(>98°C, 20min). 3, Secondary antibody was diluted at 1:200(room temperature, 30min). Negative control was used by secondary antibody only.



A

B

C

Immunofluorescence analysis of Human-appendix tissue. 1, HAO1 Monoclonal Antibody(Mix)(red) was diluted at 1:200(4°C, overnight). 2, Cy3 labeled Secondary antibody was diluted at 1:300(room temperature, 50min). 3, Picture B: DAPI(blue) 10min. Picture A: Target. Picture B: DAPI. Picture C: merge of A+B