



# 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                                                                                                                                                                                                                                                                                          |

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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**

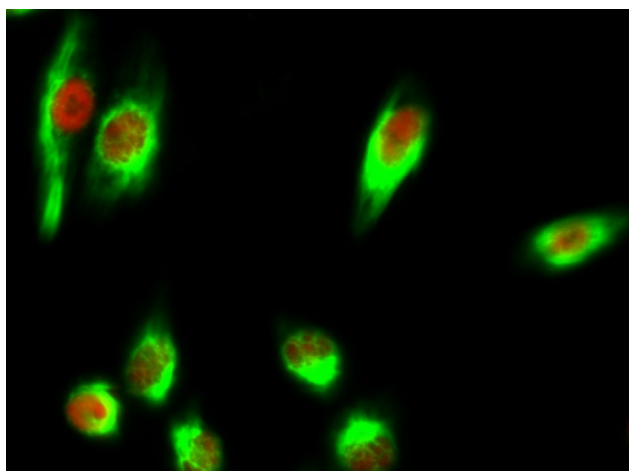
Avoid repeated freezing and thawing!

**Usage suggestions**

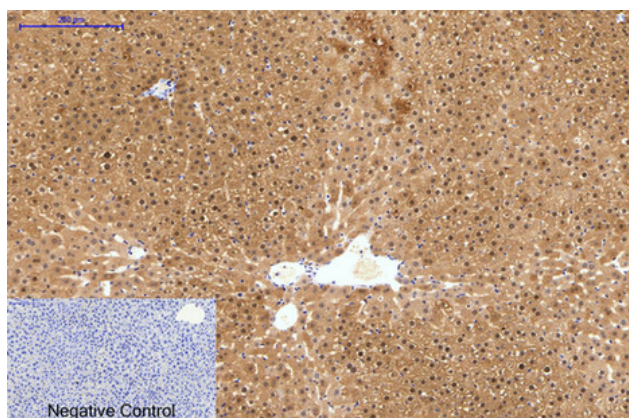
This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



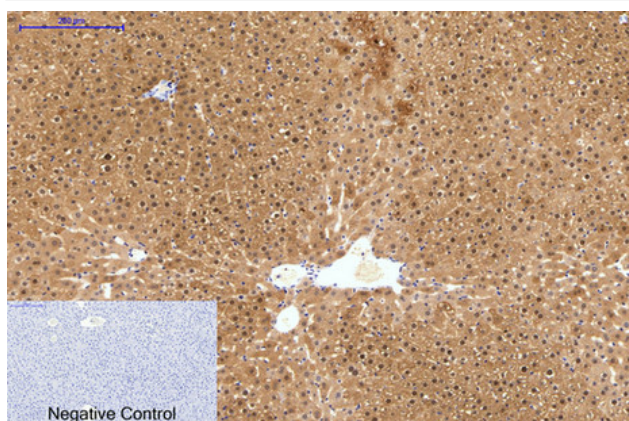
## Products Images



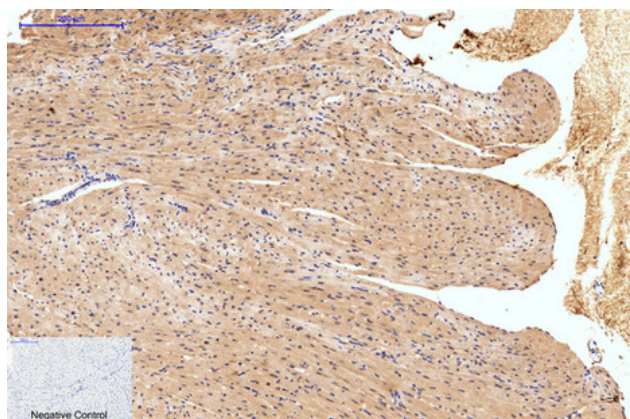
Immunofluorescence analysis of HeLa cell. 1, Chk2 (phospho Thr68) Polyclonal Antibody (red) was diluted at 1:200 (4° overnight). HAO1 Monoclonal Antibody (Mix) (green) was diluted at 1:200 (4° overnight). 2, Goat Anti Rabbit Alexa Fluor 594 Catalog: RS3611 was diluted at 1:1000 (room temperature, 50min).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



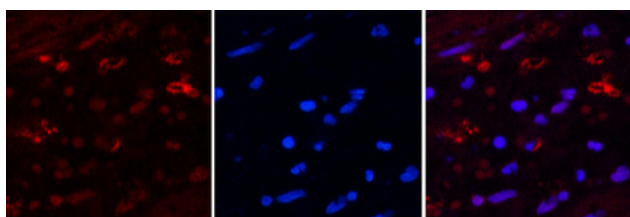
Immunohistochemical analysis of paraffin-embedded Human-liver tissue. 1, HAO1 Monoclonal Antibody (Mix) was diluted at 1:200 (4°C, overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval (>98°C, 20min). 3, Secondary antibody was diluted at 1:200 (room temperature, 30min). Negative control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