

bs-8602R**[Primary Antibody]****Bioss**
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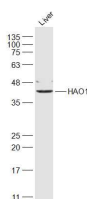
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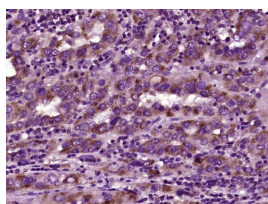
400-901-9800

HAO1 Rabbit pAb**— DATASHEET —**

Host: Rabbit Clonality: Polyclonal GeneID: 54363 Target: HAO1 Immunogen: KLH conjugated synthetic peptide derived from human GOX/HAO1: 261-370/370. Purification: affinity purified by Protein A Concentration: 1mg/ml Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles. Background: GOX is a 370 amino acid protein that is expressed in liver and pancreas. HAO1 is localized to peroxisomes and aids in organic acid metabolism via 2-hydroxyacid oxidase activity. 2-hydroxyacid oxidases, such as HAO1, are enzymes that require a flavin cofactor to oxidize 2-hydroxyacids to 2-ketoacids while reducing oxygen to hydrogen peroxide. HAO1 preferentially oxidizes the substrate glycolate and also oxidizes other substrates, including 2-hydroxy fatty acids as well as L-?hydroxy acids of moderately short chain lengths. The oxidation of glycolate yields glyoxylate which is utilized for peroxisomal synthesis of glycine. HAO1 is also able to convert glyoxylate to oxalate. HAO1 is thought to play a role in the pathophysiology of hyperoxaluria type 1, which is caused by defects in AGXT, a peroxisomal enzyme, leading to accumulation of glyoxylate. Hyperoxaluria type 1 is characterized by an accumulation of oxalate that is thought to lead to precipitates of calcium oxalate in kidneys which can be fatal.	Isotype: IgG SWISS: Q9UJM8	Applications: WB (1:500-2000) IHC-P (1:100-500) IHC-F (1:100-500) IF (1:100-500) Reactivity: Human, Mouse (predicted: Rat, Rabbit, Pig, Dog, Horse) Predicted MW.: 41 kDa Subcellular Location: Cytoplasm
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— VALIDATION IMAGES —

Sample: Liver (Mouse) Lysate at 40 ug Primary:
Anti-HAO1 (bs-8602R) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at
1/20000 dilution Predicted band size: 41 kD
Observed band size: 41 kD



Paraformaldehyde-fixed, paraffin embedded
(human liver carcinoma); 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) Polyclonal
Antibody, Unconjugated (bs-8602R) at 1:400
overnight at 4°C, followed by operating
according to SP Kit(Rabbit) (sp-0023)
instructions and DAB staining.