# HAO1 Antibody – Mouse Monoclonal

## PRODUCT OVERVIEW

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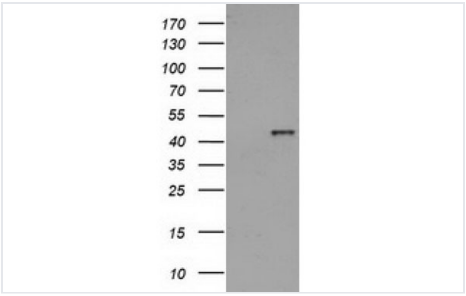
| **Product Name** | HAO1, Monoclonal Antibody |
| **Full Product Name** | HAO1 antibody |
| **Product Gene Name** | anti-HAO1 antibody |
| **Product Synonym Names** | Monoclonal HAO1; Anti-HAO1; Hydroxyacid Oxidase; Glycolate Oxidase 1; GOX; GOX1; HAOX1; HAO1; HAO 1; HAO-1 |
| **Clonality** | Monoclonal |
| **Isotype** | IgG1 |
| **Clone Number** | 5F4 |
| **Host** | Mouse |
| **Form/Format** | Supplied in PBS buffer, pH 7.3, containing 1% BSA, 50% glycerol and 0.02% sodium azide. |
| **Purity/Purification** | HAO1 antibody was purified by affinity chromatography. |
| **Concentration** | 500 ug-1 mg/ml (lot specific) |
| **Preparation and Storage** | Store at 4 degree C for short term storage. Aliquot and store at -20 degree C for long term storage. Avoid repeated freeze/thaw cycles. |
| **Molecular Weight** | 40,924 Da |
| **OMIM** | 605023 |
| **3D Structure** | ModBase 3D Structure for Q9UJM8 |
| **Cross-Reactivity** | Human |
| **Immunogen** | HAO1 antibody was raised in mouse using a full length recombinant protein of human HAO1 (NP_060015) produced in HEK293T cells, as the immunogen. |
| **Product Categories/Family for anti-HAO1 antibody** | Proteases; Inhibitors; & Enzymes |
| **Applications Tested/Suitable for anti-HAO1 antibody** | Flow Cytometry (FC/FACS), Western Blot (WB) |
| **Application Notes for anti-HAO1 antibody** | FC: 1:100<br>WB: 1:1000 |
| **Related Product Information for anti-HAO1 antibody** | MBS831663 is an antibody targeting HAO1. Also known as HAO1 antibody. Host: Mouse. Mouse monoclonal HAO1 antibody |
| **Other Notes** | Small volumes of anti-HAO1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |




**Western Blot (WB) of anti-HAO1 antibody**
Western Blot analysis of HEK293T cell lysates (5 ug) transfected with either recombinant HAO1 protein (Right) or empty vector (Left) detected with HAO1 antibody

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for HAO1. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 11068137 |
| **NCBI GeneID** | 54363 |
| **NCBI Accession #** | NP_060015 |
| **UniProt Primary Accession #** | Q9UJM8 |
| **UniProt Secondary Accession #** | Q14CQ0; Q9UPZ0; Q9Y3I7 |
| **UniProt Related Accession #** | Q9UJM8 |
| **GenBank Nucleotide #** | NM_017545.2 |
| **NCBI Official Full Name** | hydroxyacid oxidase 1 |
| **NCBI Official Synonym Full Names** | hydroxyacid oxidase (glycolate oxidase) 1 |
| **NCBI Official Symbol** | HAO1 |
| **NCBI Official Synonym Symbols** | GOX; GOX1; HAOX1 |
| **UniProt Protein Name** | Hydroxyacid oxidase 1 |
| **UniProt Synonym Protein Names** | Glycolate oxidase; GOX |
| **Protein Family** | Hydroxyacid oxidase |
| **UniProt Gene Name** | HAO1 |
| **UniProt Synonym Gene Names** | GOX1; HAOX1; HAOX1; GOX |
| **UniProt Entry Name** | HAOX1_HUMAN |
| **NCBI Protein Information** | hydroxyacid oxidase 1 |
| **NCBI Summary for HAO1** | 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 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] |

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| **UniProt Comments for HAO1** | HAO1: 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. Belongs to the FMN-dependent alpha-hydroxy acid dehydrogenase family.<br><br>Protein type: Carbohydrate Metabolism - glyoxylate and dicarboxylate; Oxidoreductase; EC 1.1.3.15<br><br>Chromosomal Location of Human Ortholog: 20p12<br><br>Cellular Component: peroxisomal matrix; peroxisome<br><br>Molecular Function: glycolate oxidase activity; FMN binding; glyoxylate oxidase activity; receptor binding; (S)-2-hydroxy-acid oxidase activity<br><br>Biological Process: glyoxylate metabolic process; response to oxidative stress; glycolate catabolic process; fatty acid alpha-oxidation |
| **Research Articles on HAO1** | **1.** The study presents the first spectroscopic evidence of the formation of an intermediate with absorbance features resembling those of a flavosemiquinone in the oxidative half-reaction of glycolate oxidase. |
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