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Datasheet for 600-401-BP8

HAAO Antibody

Overview

Description:	Anti-HAAO (RABBIT) Antibody - 600-401-BP8
Item No.:	600-401-BP8
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit

Product Details

Background:	HAAO (3-Hydroxyanthranilate 3, 4-dioxygenase) is a monomeric cytosolic protein of the family of intramolecular dioxygenases containing non-heme ferrous iron. It is widely distributed in peripheral organs, such as liver and kidney, and is present in low amounts in the central nervous system. This enzyme participates in tryptophan metabolism. It employs one cofactor, iron. HAAO catalyzes the synthesis of quinolinic acid (QUIN) from 3-hydroxyanthranilic acid. QUIN is an excitotoxin whose toxicity is mediated by its ability to activate glutamate N-methyl-D-aspartate receptors. Increased cerebral levels of QUIN may participate in the pathogenesis of neurological and inflammatory disorders. HAAO has been suggested to play a role in disorders associated with altered tissue levels of QUIN. Furthermore, recent study shows that HAAO are excellent candidate biomarkers for detecting ovarian cancer.
Synonyms:	HAAO Antibody, HAO, 3-HAO, 3-hydroxyanthranilate 3, 4-dioxygenase, 3-hydroxyanthranilate oxygenase
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	HAAO
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide

Immunogen:	Anti-HAAO antibody was prepared from whole rabbit serum produced by repeated immunizations with a 17 amino acid synthetic peptide near the N-terminus of human HAAO.
Purity/Specificity:	Anti-HAAO Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Cross reactivity with HAAO from other sources has not been determined.
Relevant Links:	• UniProtKB - P46952 • GeneID - 23498 • NCBI - NP_036337

Application Details

Tested Applications:	ELISA, IF, IHC, WB
Application Note:	Anti-HAAO Antibody has been tested for use in ELISA, Western Blotting, Immunohistochemistry and Immunofluorescence. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 33 kDa in Western Blots of specific cell lysates and tissues.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:10,000
IF:	20 µg/mL
IHC:	2.5 µg/mL
WB:	1 µg/mL

Formulation

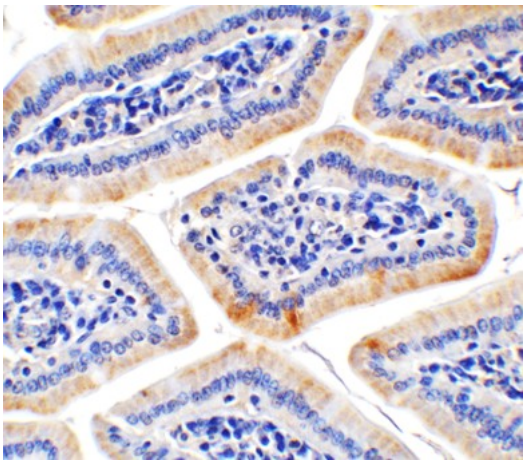
Physical State:	Liquid (sterile filtered)
Concentration:	1 mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

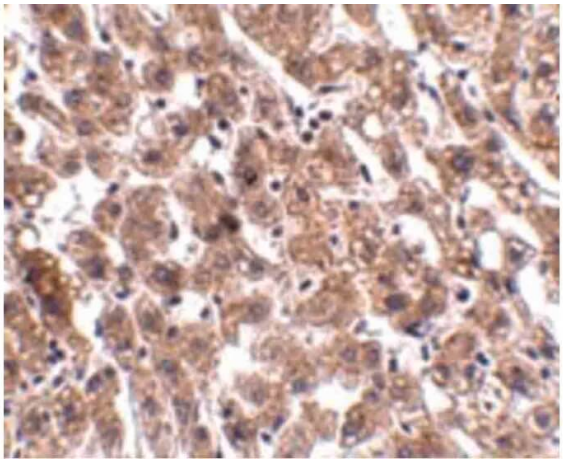
Shipping Condition:	Dry Ice

Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

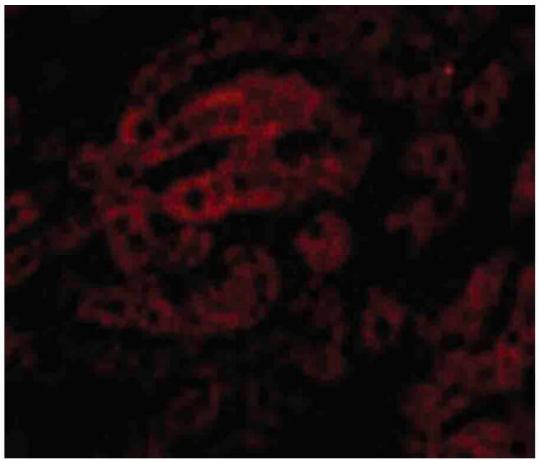
Images



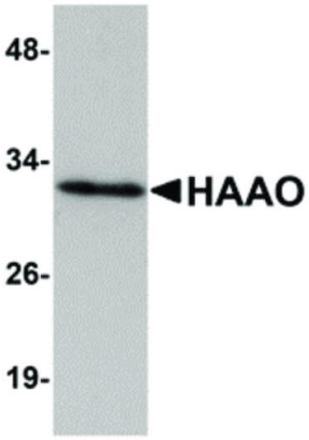
Immunohistochemistry
Immunohistochemistry of HAAO in mouse colon tissue with HAAO antibody at 2 µg/mL.



Immunohistochemistry
Immunohistochemistry of HAAO antibody. Tissue: Human liver tissue. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: HAAO antibody at 2.5 µg/mL for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: HAAO is cytoplasmic. Staining: HAAO as precipitated brown signal with blue nuclear counterstain.



Immunofluorescence Microscopy
Immunofluorescence Microscopy of HAAO antibody. Tissue: Human liver cells. Fixation: 0.5% PFA. Antigen retrieval: not required. Primary antibody: HAAO antibody at 20 µg/mL for 1 h at RT. Secondary antibody: Fluorescein rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: HAAO is cytoplasmic. Staining: HAAO as red fluorescent signal.



Western Blot
Western Blot of HAAO antibody. Lane 1: Mouse liver tissue lysate with HAAO antibody at 1 µg/mL. Load: 35 µg per lane. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 33 kDa, 33 kDa for HAAO. Other band(s): HAAO splice variants and isoforms.

Disclaimer

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