

## Product datasheet for **TA306802**

### HAAO Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IF, IHC, WB
Recommended Dilution:	WB: 1 ug/mL, ICC: 2.5 ug/mL, IF: 20 ug/mL
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	HAAO antibody was raised against a 17 amino acid peptide near the amino terminus of human HAAO.
Formulation:	PBS containing 0.02% sodium azide.
Concentration:	1ug/ul
Purification:	Affinity chromatography purified via peptide column
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	3-hydroxyanthranilate 3,4-dioxygenase
Database Link:	<a href="#">NP_036337</a> <a href="#">Entrez Gene 56823 Rat</a> <a href="#">Entrez Gene 107766 Mouse</a> <a href="#">Entrez Gene 23498 Human</a> <a href="#">P46952</a>



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**Background:**

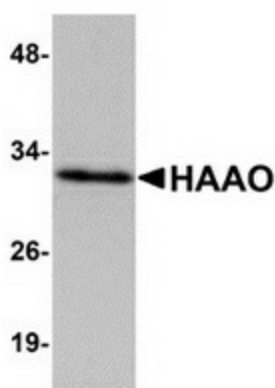
HAAO (3-Hydroxyanthranilate 3,4-dioxygenase) is a monomeric cytosolic protein of the family of intramolecular dioxygenases containing non-heme ferrous iron. It is widely distributed in peripheral organs, such as liver and kidney, and is present in low amounts in the central nervous system. This enzyme 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:**

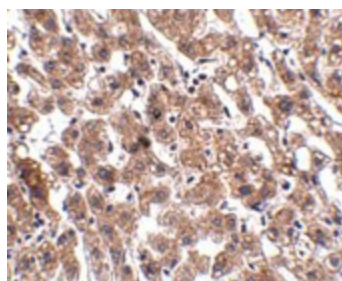
3-HAO; HAO

**Protein Pathways:**

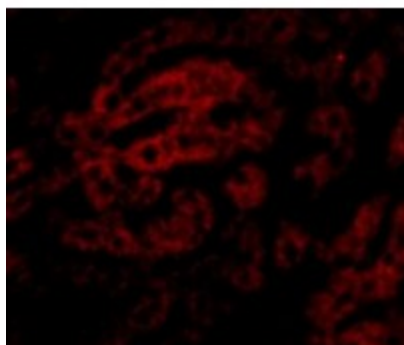
Metabolic pathways, Tryptophan metabolism

**Product images:**

Western blot analysis of HAAO in Mouse liver tissue lysate with HAAO antibody at 1 ug/ml.



Immunohistochemistry of HAAO in human liver tissue with HAAO antibody at 2.5 ug/ml.



Immunofluorescence of HAAO in Human Liver cells with HAAO antibody at 20 ug/mL.