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HAAO Antibody

HAAO: *3-hydroxyanthranilate 3,4-dioxygenase, 3-hydroxyanthranilate oxygenase, 3-HAO, HAD, HAO*

CATALOG No.: 5251

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 (1). Furthermore, recent study shows that HAAO are excellent candidate biomarkers for detecting ovarian cancer (2).

SOURCE:

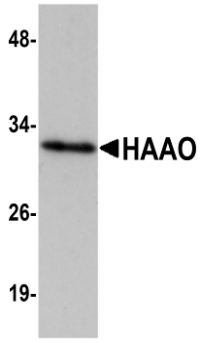
Rabbit polyclonal HAAO antibody was raised against a 17 amino acid peptide near the amino terminus of human HAAO (GenBank accession no. NP_036337).

APPLICATION:

HAAO antibody can be used for detection of HAAO by Western blot at 1 - 2 µg/ml. (Optimal dilution should be determined by user.) Mouse liver tissue lysate can be used as positive control. HAAO antibody is human, mouse and rat reactive. **For research use only.**

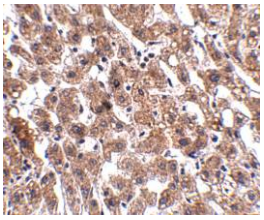
STORAGE:

HAAO antibody is supplied as immunoaffinity purified IgG in PBS containing 0.02% sodium azide. Store at 4˚C, stable for one year.



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

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



RELATED PRODUCTS:

Blocking Peptide, Catalog No. **5251P.**
Mouse Liver Tissue Lysate, Catalog No. **1404.**
Slitrk1 Antibody, Catalog No. **4453.**
MICA Antibody, Catalog No. **4261.**
GAPDH Antibody, Catalog No. **3783.**

REFERENCES:

1. Decker RH, Kang HH, Leach FR, et al. Purification and properties of 3-hydroxyanthranilic acid oxidase. *J. Biol. Chem.* 1961; 236:3076–82.
2. Huang YW, Jansen RA, Fabbri E, et al. Identification of candidate epigenetic biomarkers for ovarian cancer detection. *Oncol. Rep.* 2009; 22:853-61.

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