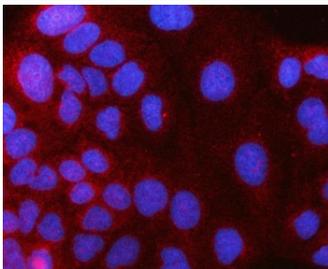


HAAO Antibody / 3-hydroxyanthranilate 3, 4-dioxygenase / 3HAO (RQ8821)

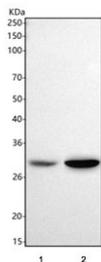
Catalog No.	Formulation	Size
RQ8821	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 days
Species Reactivity	Human, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity chromatography
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	P46952
Localization	Cytoplasm
Applications	Western Blot : 1-2ug/ml Immunofluorescence : 5ug/ml ELISA : 0.1-0.5ug/ml
Limitations	This HAAO antibody is available for research use only.



Immunofluorescent staining of FFPE human Caco-2 cells with HAAO antibody (red) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



Western blot testing of 1) human HCCP and 2) rat liver tissue lysate with HAAO antibody. Predicted molecular weight ~32 kDa.

Description

3-hydroxyanthranilate 3,4-dioxygenase (EC 1.13.11.6) is an enzyme encoded by the HAAO gene. 3-Hydroxyanthranilate 3,4-dioxygenase is a monomeric cytosolic protein belonging to the family of intramolecular dioxygenases containing nonheme ferrous iron. It is widely distributed in peripheral organs, such as liver and kidney, and is also present in low amounts in the central nervous system. 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 neurologic and inflammatory disorders. HAAO has been suggested to play a role in disorders associated with altered tissue levels of QUIN.

Application Notes

Optimal dilution of the HAAO antibody should be determined by the researcher.

Immunogen

An E.coli-derived human recombinant protein (amino acids E52-G286) was used as the immunogen for the HAAO antibody.

Storage

After reconstitution, the HAAO Antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.