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DAO Rabbit pAb

Catalog No.: A5309

Basic Information

Observed MW
39kDa

Calculated MW
39kDa

Category
Primary antibody

Applications
WB,IF/ICC,IF-P,ELISA

Cross-Reactivity
Human, Mouse, Rat

Background

This gene encodes the peroxisomal enzyme D-amino acid oxidase. The enzyme is a flavoprotein which uses flavin adenine dinucleotide (FAD) as its prosthetic group. Its substrates include a wide variety of D-amino acids, but it is inactive on the naturally occurring L-amino acids. Its biological function is not known; it may act as a detoxifying agent which removes D-amino acids that accumulate during aging. In mice, it degrades D-serine, a co-agonist of the NMDA receptor. This gene may play a role in the pathophysiology of schizophrenia.

Recommended Dilutions

WB	1:1000 - 1:5000
IF/ICC	1:50 - 1:200
IF-P	1:50 - 1:200
ELISA	Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements.

Immunogen Information

Gene ID
1610

Swiss Prot
P14920

Immunogen
Recombinant protein (or fragment).This information is considered to be commercially sensitive.

Synonyms
DAAO; OXDA; DAMOX; DAO

Contact

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Product Information

Source
Rabbit

Isotype
IgG

Purification
Affinity purification

Storage
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS containing 50% glycerol, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

Validation Data

Western blot analysis of lysates from Rat kidney, using DAO Rabbit pAb (A5309) at 1:3000 dilution.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 1s.

Confocal immunofluorescence analysis of L929 cells using DAO Rabbit pAb (A5309) at dilution of 1:100. Blue: DAPI for nuclear staining.

Immunofluorescence analysis of paraffin-embedded rat kidney using DAO Rabbit pAb (A5309) at dilution of 1:200 (40x lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.

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