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DAO Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP13941c

Specification

DAO Antibody (Center) - Product Information

Application	**WB,E**
Primary Accession	P14920
Other Accession	NP_001908.3
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**39474**
Antigen Region	**259-287**

DAO Antibody (Center) - Additional Information

Gene ID 1610

Other Names
D-amino-acid oxidase, DAAO, DAMOX, DAO, DAO, DAMOX

Target/Specificity
This DAO antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 259-287 amino acids from the Central region of human DAO.

Dilution
WB~~1:1000

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
DAO Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

DAO Antibody (Center) - Protein Information

Name DAO

Synonyms DAMOX

Function Regulates the level of the neuromodulator D-serine in the brain. Has high activity towards D-DOPA and contributes to dopamine synthesis. Could act as a detoxifying agent which removes D-amino acids accumulated during aging. Acts on a variety of D-amino acids with a preference for those having small hydrophobic side chains followed by those bearing polar, aromatic, and basic groups. Does not act on acidic amino acids.

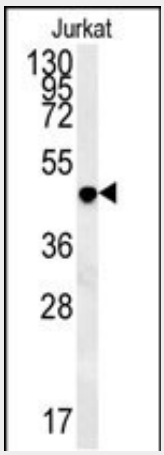
Cellular Location
Peroxisome.

DAO Antibody (Center) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

DAO Antibody (Center) - Images



DAO Antibody (Center) (Cat. #AP13941c) western blot analysis in Jurkat cell line lysates (35ug/lane).This demonstrates the DAO antibody detected the DAO protein (arrow).

DAO Antibody (Center) - 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.

DAO Antibody (Center) - References

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Caldinelli, L., et al. Protein Sci. 19(8):1500-1512(2010)
Ruano, G., et al. Pharmacogenomics 11(7):959-971(2010)
Ohnuma, T., et al. Schizophr. Res. 118 (1-3), 300-302 (2010) :
Mitchell, J., et al. Proc. Natl. Acad. Sci. U.S.A. 107(16):7556-7561(2010)