

DAO Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant DAO.

Catalog # AT1711a

Product Information

Application	E
Primary Accession	P14920
Other Accession	NM_001917
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG2a Kappa
Clone Names	2F5
Calculated MW	39474

Additional Information

Gene ID	1610
Other Names	D-amino-acid oxidase, DAAO, DAMOX, DAO, DAO, DAMOX
Target/Specificity	DAO (NP_001908, 119 a.a. ~ 218 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	DAO Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

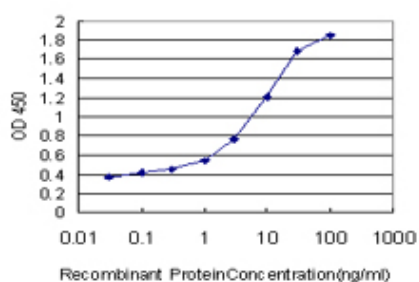
This gene encodes the peroxisomal enzyme D-amino acid oxidase. The enzyme is a flavoprotein which uses flavin adenine dinucleotide (FAD) as its prosthetic group. Its substrates include a wide variety of D-amino acids, but it is inactive on the naturally occurring L-amino acids. Its biological function 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.

References

Physiogenomic analysis of statin-treated patients: domain-specific counter effects within the ACACB gene on

low-density lipoprotein cholesterol? Rua?o G, et al. Pharmacogenomics, 2010 Jul. PMID 20602615. Sex-different association of DAO with schizophrenia in Koreans. Kim B, et al. Psychiatry Res, 2010 Sep 30. PMID 20483168. Familial amyotrophic lateral sclerosis is associated with a mutation in D-amino acid oxidase. Mitchell J, et al. Proc Natl Acad Sci U S A, 2010 Apr 20. PMID 20368421. No association between DAO and schizophrenia in a Japanese patient population: a multicenter replication study. Ohnuma T, et al. Schizophr Res, 2010 May. PMID 20178891. Increased D-amino acid oxidase expression in the bilateral hippocampal CA4 of schizophrenic patients: a post-mortem study. Habi G, et al. J Neural Transm, 2009 Dec. PMID 19823762.

Images



Detection limit for recombinant GST tagged DAO is approximately 0.03ng/ml as a capture antibody.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.