DAO Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	DAO, Polyclonal Antibody
Full Product Name	DAO Antibody, FITC
Product Gene Name	anti-DAO antibody
Product Synonym Names	D-amino-acid oxidase; DAAO; DAMOX; DAO; DAMOX
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Purity/Purification	Caprylic Acid Ammonium Sulfate Precipitation Purified
Preparation and Storage	Shipped at 4 degree C. Upon delivery aliquot and store at -20 degree C or -80 degree C. Avoid repeated freeze.
Matching Pairs	Unconjugated Antibody: DAO (MBS7001654) FITC Conjugated Antibody: DAO (MBS1498421)
Molecular Weight	39,474 Da
OMIM	124050
3D Structure	ModBase 3D Structure for P14920
Storage Buffer	Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol, 0.01M PBS, PH 7.4
Conjugate	FITC
Immunogen	Recombinant human D-amino-acid oxidase protein(1-347aa)
Santa Cruz Alternative	Potential replacement for Santa Cruz Biotechnology antibody catalog# sc-26077 / sc-26077 / sc-26075 / sc-26078
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-DAO antibody	ELISA (EIA)
Related Product Information for anti-DAO antibody	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.
Other Notes	Small volumes of anti-DAO antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for DAO purchase	MBS1498421 is an antibody targeting DAO. Also known as DAO Antibody, FITC. Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for DAO. It may not necessarily be applicable to this product.

NCBI GI #	148539837

NCBI GeneID	1610
NCBI Accession #	NP_001908.3
UniProt Primary Accession #	P14920
UniProt Secondary Accession #	Q16758; Q8N6R2; B2R7I5
UniProt Related Accession #	P14920
GenBank Nucleotide #	NM_001917.4
NCBI Official Full Name	D-amino-acid oxidase
NCBI Official Synonym Full Names	D-amino-acid oxidase
NCBI Official Symbol	DAO
NCBI Official Synonym Symbols	DAAO; OXDA; DAMOX
UniProt Protein Name	D-amino-acid oxidase
Protein Family	2-oxoglutarate-dependent dioxygenase
UniProt Gene Name	DAO
UniProt Synonym Gene Names	DAMOX; DAAO; DAMOX; DAO
UniProt Entry Name	OXDA_HUMAN
NCBI Protein Information	D-amino-acid oxidase
NCBI Summary for DAO	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. [provided by RefSeq, Jul 2008]
UniProt Comments for DAO	DAO: 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. Belongs to the DAMOX/DASOX family. Protein type: Amino Acid Metabolism - arginine and proline; Other Amino Acids Metabolism - D-Arginine and D-ornithine; Oxidoreductase; EC 1.4.3.3; Amino Acid Metabolism - glycine, serine and threonine Chromosomal Location of Human Ortholog: 12q24 Cellular Component: cytosol; mitochondrial outer membrane; peroxisomal matrix; peroxisomal membrane; peroxisome Molecular Function: cofactor binding; D-amino-acid oxidase activity; protein binding; protein dimerization activity; receptor binding Biological Process: dopamine biosynthetic process; glyoxylate metabolic process; proline catabolic process Disease: Schizophrenia
Research Articles on DAO	**1.** In the brain, the concentration of D-serine stored in cells is defined by the activity of D-amino acid oxidase.
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