

## ARG57940 anti-DAO / D Amino Acid Oxidase antibody

Package: 100 µl  
Store at: -20°C

### Summary

Product Description	Rabbit Polyclonal antibody recognizes DAO / D Amino Acid Oxidase
Tested Reactivity	Hu, Ms, Rat
Tested Application	ICC/IF, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	DAO / D Amino Acid Oxidase
Species	Human
Immunogen	Recombinant fusion protein corresponding to aa. 1-347 of Human DAO (NP_001908.3).
Conjugation	Un-conjugated
Alternate Names	EC 1.4.3.3; D-amino-acid oxidase; DAO; DAMOX; OXDA; DAAO

### Application Instructions

Application table	Application	Dilution
	ICC/IF	1:50 - 1:200
	WB	1:500 - 1:2000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	Raji	
Observed Size	36 kDa	

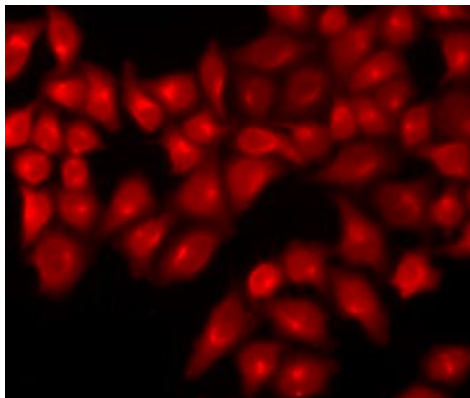
### Properties

Form	Liquid
Purification	Affinity purified.
Buffer	PBS (pH 7.3), 0.02% Sodium azide and 50% Glycerol.
Preservative	0.02% Sodium azide
Stabilizer	50% Glycerol
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

## Bioinformation

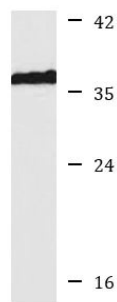
Gene Symbol	DAO
Gene Full Name	D-amino-acid oxidase
Background	This gene encodes the peroxisomal enzyme D-amino acid oxidase. The enzyme is a flavoprotein which uses flavin adenine dinucleotide (FAD) as its prosthetic group. Its substrates include a wide variety of D-amino acids, but it is inactive on 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. [provided by RefSeq, Jul 2008]
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. [UniProt]
Calculated Mw	39 kDa
Cellular Localization	Peroxisome. [UniProt]

## Images



ARG57940 anti-DAO / D Amino Acid Oxidase antibody ICC/IF image

Immunofluorescence: MCF-7 cells stained with ARG57940 anti-DAO / D Amino Acid Oxidase antibody.



Raji

ARG57940 anti-DAO / D Amino Acid Oxidase antibody WB image

Western blot: 25 µg of Raji cell lysate stained with ARG57940 anti-DAO / D Amino Acid Oxidase antibody at 1:1000 dilution.