

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	

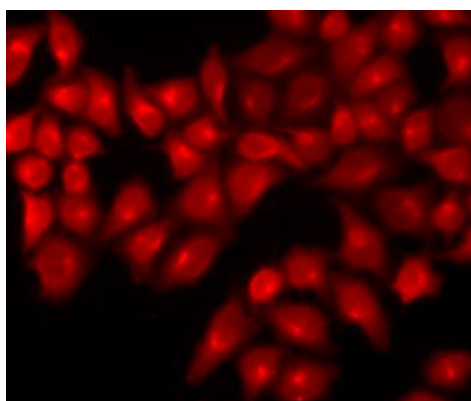
Properties

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

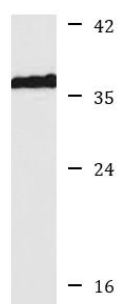
Gene Symbol	DAO
Gene Full Name	D-amino-acid oxidase
Background	This gene encodes the peroxisomal enzyme D-amino acid oxidase. The enzyme is a flavoprotein which uses flavin adenine dinucleotide (FAD) as its prosthetic group. Its substrates include a wide variety of D-amino acids, but it is inactive on 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.