

Product datasheet for **TA332602S**

D Amino Acid Oxidase (DAO) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, ICC/IF, WB
Recommended Dilution:	WB, 1:1000 - 1:5000 IF/ICC, 1:50 - 1:200 ELISA, Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Formulation:	Store at -20°C (regular) and -80°C (long term). Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Concentration:	lot specific
Purification:	Affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C. Avoid freeze / thaw cycles.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	39kDa
Gene Name:	D-amino-acid oxidase
Database Link:	NP_001908 Entrez Gene 13142 Mouse Entrez Gene 114027 Rat Entrez Gene 1610 Human P14920



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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.

Synonyms:

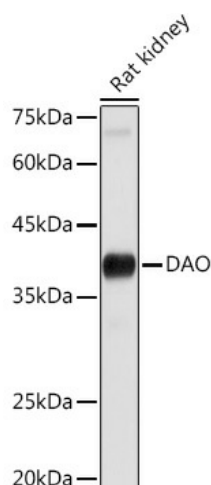
DAAO; DAMOX; OXDA

Protein Families:

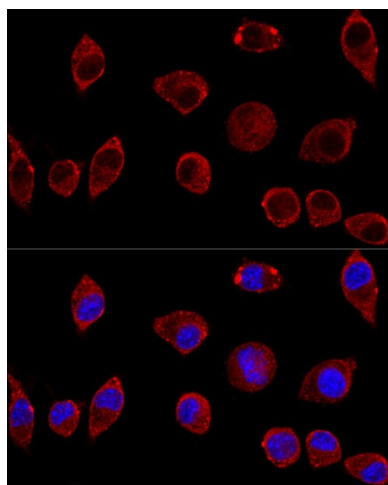
Druggable Genome

Protein Pathways:

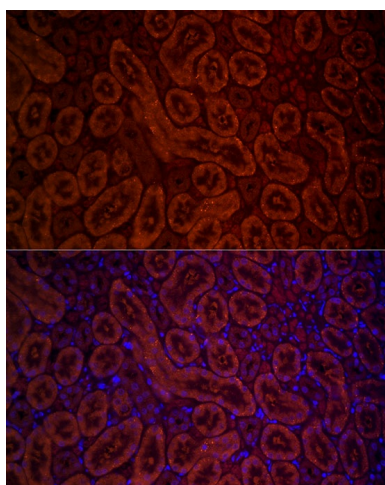
Arginine and proline metabolism, D-Arginine and D-ornithine metabolism, Glycine, serine and threonine metabolism, Metabolic pathways

Product images:


Western blot analysis of lysates from Rat kidney



Confocal immunofluorescence analysis of L929 cells using DAO Rabbit pAb ([TA332602]) at dilution of 1:100. Blue: DAPI for nuclear staining.



Immunofluorescence analysis of paraffin-embedded rat kidney using DAO Rabbit pAb ([TA332602]) at dilution of 1:200 (40x lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.