

Datasheet for 100-601-143**D-Amino Acid Oxidase Antibody****Overview**

Description:	Anti-D-Amino Acid Oxidase (Pig Kidney) (SHEEP) Antibody - 100-601-143
Item No.:	100-601-143
Size:	2 mL
Applications:	WB
Reactivity:	Pig
Host Species:	Sheep

Product Details

Background:	D-Amino Acid Oxidase regulates the level of the neuromodulator D-serine in the brain. It has high activity towards D-DOPA and contributes to dopamine synthesis. It could act as a detoxifying agent which removes D-amino acids accumulated during aging. It 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. D-Amino Acid Oxidase does not act on acidic amino acids.
Synonyms:	sheep anti-D-Amino Acid Oxidase Antibody, D-amino-acid oxidase, DAMOX, DAAO, DAO
Host Species:	Sheep
Clonality:	Polyclonal
Format:	Antiserum

Target Details

Gene Name:	DAO
Reactivity:	Pig
Immunogen Type:	Native Protein
Immunogen:	D-Amino Acid Oxidase [Pig Kidney]

Purity/Specificity: This product was prepared from monospecific antiserum by a delipidation and defibrination. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-sheep serum, purified and partially purified D-Amino Acid Oxidase [Pig Kidney]. Cross reactivity against D-Amino Acid Oxidase from other tissues and species may occur but have not been specifically determined.

Relevant Links:

- [UniProtKB - P00371](#)
- [NCBI - NP_999231.1](#)
- [GeneID - 397134](#)

Application Details

Suggested Applications: WB (Based on references)

Application Note: This product has been assayed against 1.0 ug of D-Amino Acid Oxidase [Pig Kidney] in a standard ELISA using Peroxidase conjugated Affinity Purified anti-Sheep IgG [H&L] (Goat) code #611-1302 and ABTS (2,2'-azino-bis-[3-ethylbenthiazoline-6-sulfonic acid]) code # ABTS-100 as a substrate for 30 minutes at room temperature. A working dilution of 1:20,000 to 1:100,000 of the reconstitution concentration is suggested for this product.

Assay Dilutions: All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

ELISA: 1:5,000 - 1:20,000

IP: 1:100

WB: 1:500 - 1:5,000

Formulation

Physical State: Lyophilized

Concentration: 90 mg/mL by Refractometry

Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2

Preservative: 0.01% (w/v) Sodium Azide

Stabilizer: None

Reconstitution Volume: 2.0 mL

Reconstitution Buffer: Restore with deionized water (or equivalent)

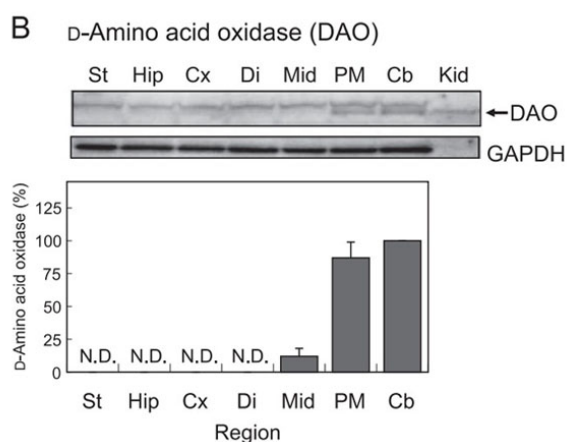
Shipping & Handling

Shipping Condition: Ambient

Storage Condition: Store vial at 4° C prior to restoration. For extended storage aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

Expiration: Expiration date is one (1) year from date of receipt.

Images



Western Blot

Western Blot of Anti-D-Amino Acid Oxidase (Pig Kidney) Antibody.

The protein expressions of serine racemase and D-amino acid oxidase (DAO) in several brain areas of rats. The protein levels of serine racemase or DAO were measured by Western blotting. B: The protein expression of DAO is expressed as 100% for the level of the cerebellum. Arrow indicates migration of the DAO. St, striatum; Hip, hippocampus; Cx, cortex; Di, diencephalon; Mid, midbrain; PM, pons-medulla; Cb, cerebellum; Kid, kidney; N.D., not detectable. Fig. 2. PMID: 18603832.

References

- Yoshikawa M et al. Long-Term Treatment With Morphine Increases the D-Serine Content in the Rat Brain by Regulating the mRNA and Protein Expressions of Serine Racemase and D-Amino Acid Oxidase. *J Pharmacol Sci.* (2008)

Disclaimer

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