

Datasheet for 200-603-143-0100**D-Amino Acid Oxidase Antibody Peroxidase Conjugated****Overview**

Description:	Anti-D-Amino Acid Oxidase (Pig Kidney) (SHEEP) Antibody Peroxidase Conjugated - 200-603-143-0100
Item No.:	200-603-143-0100
Size:	100 µg
Reactivity:	Pig
Host Species:	Sheep

Product Details

Background:	D-Amino Acid Oxidase enzyme belongs to the FAD dependent oxidoreductase family, and acts on the CH-NH ₂ group of D-amino acid donors with oxygen as acceptor. It 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. D-Amino Acid Oxidase 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. But does not act on acidic amino acids.
Synonyms:	sheep anti-D-Amino Acid Oxidase HRP conjugated Antibody, peroxidase conjugated sheep anti-D-Amino Acid Oxidase Antibody, D-amino-acid oxidase, DAMOX, DAAO, DAO
Host Species:	Sheep
Conjugate:	Peroxidase (HRP)
Clonality:	Polyclonal
Format:	IgG

Target Details

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

Purity/Specificity: D-Amino Acid Oxidase is an IgG fraction antibody purified from monospecific antiserum by a multi-step process which includes delipidation, salt fractionation and ion exchange chromatography followed by extensive dialysis against the buffer stated above. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Peroxidase, anti-Sheep Serum as well as 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

Application Note: Anti-D-Amino Acid Oxidase Peroxidase Conjugated is suitable to be assayed against 1.0 ug of D-Amino Acid Oxidase [Pig Kidney] in a standard capture ELISA using 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 1:12,000 to 1:60,000 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: 1 mg/mL by UV absorbance at 280 nm

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

Preservative: 0.01% (w/v) Gentamicin Sulfate. Do NOT add Sodium Azide!

Stabilizer: 10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free

Reconstitution Volume: 100 µL

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.

Disclaimer

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