

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

Description:	Anti-D-Amino Acid Oxidase (Pig Kidney) (SHEEP) Antibody Peroxidase Conjugated - 200-603-143S
Item No.:	200-603-143S
Size:	25 µL
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: Liquid (sterile filtered)

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

Shipping & Handling

Shipping Condition: Dry Ice

Storage Condition: Store vial at -20° C or below prior to opening. This vial contains a relatively low volume of reagent (25 µL). To minimize loss of volume dilute 1:10 by adding 225 µL of the buffer stated above directly to the vial. Recap, mix thoroughly and briefly centrifuge to collect the volume at the bottom of the vial. Use this intermediate dilution when calculating final dilutions as recommended below. Store the vial at -20°C or below after dilution. Avoid cycles of freezing and thawing.

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

Disclaimer

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