

Datasheet for ABIN94967
anti-D Amino Acid Oxidase antibody



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1 Image

Overview

| | |
|--------------|--|
| Quantity: | 2 mL |
| Target: | D Amino Acid Oxidase (DAO) |
| Reactivity: | Pig |
| Host: | Sheep |
| Clonality: | Polyclonal |
| Conjugate: | This D Amino Acid Oxidase antibody is un-conjugated |
| Application: | Western Blotting (WB), ELISA, Immunoprecipitation (IP) |

Product Details

| | |
|-----------------------------|---|
| Purpose: | D-Amino Acid Oxidase Antibody |
| Immunogen: | Immunogen: D-Amino Acid Oxidase [Pig Kidney] Immunogen Type: Native Protein |
| Cross-Reactivity (Details): | Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-sheep serum, purified and partially purified D-Amino Acid Oxidase [Pig Kidney]. |
| Characteristics: | Synonyms: sheep anti-D-Amino Acid Oxidase Antibody, D-amino-acid oxidase, DAMOX, DAAO, DAO |
| Purification: | This product was prepared from monospecific antiserum by a delipidation and defibrination. |

Target Details

| | |
|-------------------|--------------------------------------|
| Target: | D Amino Acid Oxidase (DAO) |
| Alternative Name: | DAO (DAO Products) |

Target Details

Background: 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.

Gene ID: 397134

NCBI Accession: [NP_999231](#)

UniProt: [P00371](#)

Application Details

Application Notes: Application Note: This product has been assayed against 1.0 µg 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.

Western Blot Dilution: 1:500 - 1:5,000

Immunoprecipitation Dilution: 1:100

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

Other: User Optimized

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Reconstitution Volume: 2.0 mL

Reconstitution Buffer: Restore with deionized water (or equivalent)

Concentration: 90 mg/mL

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

Stabilizer: None

Preservative: 0.01 % (w/v) Sodium Azide

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which

Handling

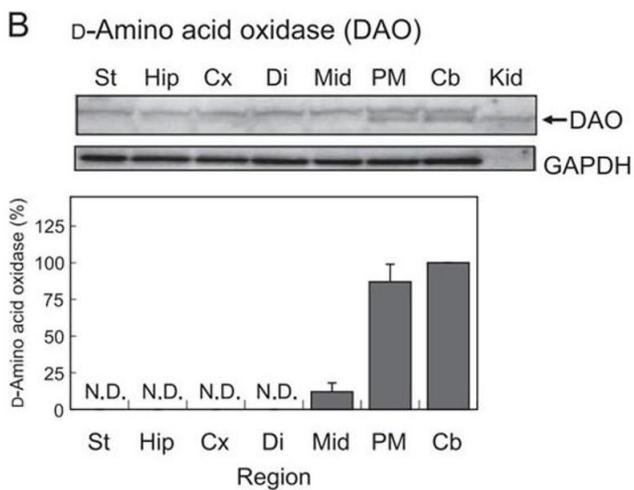
should be handled by trained staff only.

Storage: 4 °C,-20 °C

Storage Comment: 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.

Expiry Date: 12 months

Images



Western Blotting

Image 1. 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.