

Datasheet for 200-4391S

Superoxide Dismutase Antibody Peroxidase Conjugated**Overview**

Description:	Anti-Superoxide Dismutase (RABBIT) Antibody Peroxidase Conjugated - 200-4391S
Item No.:	200-4391S
Size:	25 µL
Applications:	WB
Reactivity:	Bovine
Host Species:	Rabbit

Product Details

Background:	Superoxide Dismutase destroys radicals which are normally produced within the cells and which are toxic to biological systems. They are an important antioxidant defense in nearly all cells exposed to oxygen. Mutations in the Superoxide Dismutase enzyme can cause ALS, A4V, G93A, Down Syndrome, ARDS, and COPD.
Synonyms:	rabbit anti-Superoxide Dismutase 1 Antibody HRP conjugation, peroxidase conjugated rabbit anti-SOD1 antibody, peroxidase conjugated rabbit anti-Superoxide Dismutase 1 Antibody, rabbit anti-SOD1 antibody HRP conjugation, ALS 1 antibody, ALS antibody, ALS1 antibody, Amyotrophic lateral sclerosis 1 adult antibody, Amyotrophic lateral sclerosis 1 antibody, Cu/Zn SOD antibody, Cu/Zn superoxide dismutase antibody, Homodimer antibody, SOD 1
Host Species:	Rabbit
Conjugate:	Peroxidase (HRP)
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	SOD1
Reactivity:	Bovine
Immunogen Type:	Native Protein
Immunogen:	Superoxide Dismutase [Bovine erythrocytes]

Purity/Specificity: Superoxide Dismutase 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-Rabbit Serum as well as purified and partially purified Superoxide Dismutase [Bovine erythrocytes]. Cross reactivity against Superoxide Dismutase from other tissues and species may occur but have not been specifically determined.

Relevant Links:

- [UniProtKB - P00442](#)
- [NCBI - DAA33706.1](#)
- [GeneID - 281495](#)

Application Details

Tested Applications: WB

Application Note: Anti-Superoxide Dismutase Peroxidase Conjugated Antibody has been tested by Western blot and is suitable to be assayed against 1.0 ug of Superoxide Dismutase [Bovine erythrocytes] in a standard capture ELISA using ABTS (2,2'-azino-bis-[3-ethylbenzthiazoline-6-sulfonic acid]) code # ABTS-100 as a substrate for 30 minutes at room temperature. A working dilution of 1:1,000 to 1:2,000 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

WB: 1:500- 1:2,000

Formulation

Physical State: Liquid (sterile filtered)

Concentration: 1.0 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

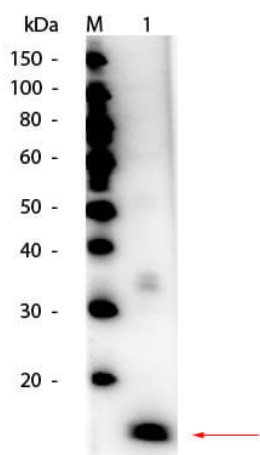
Shipping & Handling

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.

Images



Western Blot

Western Blot of HRP Conjugated Superoxide Dismutase Antibody. Lane 1: Superoxide Dismutase Load: 50 ng per lane. Primary antibody: HRP Conjugated Superoxide Dismutase Antibody at 1:1,000 overnight at 4°C. Secondary antibody: none Detected directly using FENTOMAX Substrate (p/n FENTOMAX-110A and FENTOMAX-110B). Block: MB-070 for 30 min at RT. Predicted/Observed size: 15.6 kDa, 15.6 kDa.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.