

**Datasheet for 200-4191S****Superoxide Dismutase Antibody****Overview**

|                      |                                                               |
|----------------------|---------------------------------------------------------------|
| <b>Description:</b>  | Anti-Superoxide Dismutase (SOD) (RABBIT) Antibody - 200-4191S |
| <b>Item No.:</b>     | 200-4191S                                                     |
| <b>Size:</b>         | 25 µL                                                         |
| <b>Applications:</b> | WB                                                            |
| <b>Reactivity:</b>   | Human, Bovine                                                 |
| <b>Host Species:</b> | Rabbit                                                        |

**Product Details**

|                      |                                                                                                                                                                                                                                                                                                   |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Background:</b>   | Superoxide Dismutase destroys radicals which are normally produced within the cells and which are toxic to biological systems.                                                                                                                                                                    |
| <b>Synonyms:</b>     | rabbit anti-Superoxide Dismutase 1 Antibody, rabbit anti-SOD1 antibody, 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 |
| <b>Host Species:</b> | Rabbit                                                                                                                                                                                                                                                                                            |
| <b>Clonality:</b>    | Polyclonal                                                                                                                                                                                                                                                                                        |
| <b>Format:</b>       | IgG                                                                                                                                                                                                                                                                                               |

**Target Details**

|                        |                                            |
|------------------------|--------------------------------------------|
| <b>Gene Name:</b>      | SOD1                                       |
| <b>Reactivity:</b>     | Human, Bovine                              |
| <b>Immunogen Type:</b> | Native Protein                             |
| <b>Immunogen:</b>      | Superoxide Dismutase [Bovine erythrocytes] |

**Purity/Specificity:** Anti-Superoxide Dismutase (SOD) 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-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:** Superoxide Dismutase (SOD) 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 ELISA using Peroxidase conjugated Affinity Purified anti-Rabbit 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 1:10,000 to 1:50,000 is suggested for this product.

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

**ELISA:** 1:10,000 - 1:50,000

**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) Sodium Azide

**Stabilizer:** None

## 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.

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

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## Disclaimer

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