ROCKLAND

Order online now!

www.rockland.com
tech@rockland.com
+1 484.791.3823

Datasheet for 200-4191

Superoxide Dismutase Antibody

Overview

Description:	Anti-Superoxide Dismutase (SOD) (RABBIT) Antibody (BULK ORDER) - 200-4191
Item No.:	200-4191
Size:	50 mg
Applications:	WB
Reactivity:	Human, 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.
Synonyms:	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
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	SOD1
Reactivity:	Human, Bovine
Immunogen Type:	Native Protein
Immunogen:	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:	Lyophilized
Concentration:	10.0 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
Reconstitution Volume:	5.0 mL
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.

References

- Ali II et al. Adropin modulates pancreatic cell proliferation and glutathione levels in an animal model of type 1 diabetes mellitus. *Animal Model Exp Med.* (2025)

Disclaimer