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Datasheet for 009-001-T48S

SOD1 protein-GST fusion

Overview

Description:	SOD1 recombinant protein-GST fusion protein - 009-001-T48S
Item No.:	009-001-T48S
Size:	20 µg
Origin:	Human
Expressed in:	E. coli

Product Details

Background:	SOD1 (superoxide dismutase 1) is the major soluble cytoplasmic enzyme responsible for destroying harmful free superoxide radicals in the body thereby providing defense against oxygen free-radical toxicity. Soluble cytoplasmic SOD1 is a copper- and zinc-containing enzyme and the SOD1 gene maps to chromosome 21q22 (1). Mutations in the SOD1 gene have been implicated to be the cause of familial amyotrophic lateral sclerosis, increased age-related muscle mass loss, early development of cataracts, macular degeneration, thymic involution, hepatocellular carcinoma, and shortened lifespan (2). SOD1 Protein is ideal for investigators involved in Signaling Proteins, Cell Stress & Chaperone Proteins, Apoptosis/Autophagy, Cancer, Cardiovascular Disease, Cellular Stress, Inflammation, and Neurobiology research.
Synonyms:	Cu/Zn-SOD, ALS, SOD, ALS1, IPOA, Homodimer, Superoxide Dismutase 1
Species of Origin:	Human
Expressed in:	E. coli
Type:	Recombinant Protein

Target Details

Gene Name:	SOD1
Purity/Specificity:	Recombinant full-length human SOD1 was expressed in E. coli cells using an N-Terminal Glutathione-S-Transferase fusion protein. The purity was determined to be >90% by densitometry.
Relevant Links:	• NCBI - NM_000454

Application Details

Application Note:	SOD1 Protein is stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol. SOD1 Protein is suitable for use in Western Blot. Expect a band approximately ~45kDa on specific lysates or tissues. Specific conditions for reactivity should be optimized by the end user.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
WB:	User Optimized

Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	0.2 µg/µL
Buffer:	See application note.

Shipping & Handling

Shipping Condition:	Dry Ice
Storage Condition:	Store product at –70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
Expiration:	Expiration date is one (1) year from date of receipt.

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.

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