



# SZABO SCANDIC

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## Produktinformation



Forschungsprodukte & Biochemikalien



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Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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# Anti-SOD1 (EDI) Antibody

Rabbit Anti-Human SOD1 (EDI) Polyclonal  
Catalog No. SPC-206



Discovery through partnership | Excellence through quality

## Overview

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### Product Name

SOD1 (EDI) Antibody

### Description

Rabbit Anti-Human SOD1 (EDI) Polyclonal

### Species Reactivity

Human, Mouse, Rat

### Applications

WB

### Antibody Dilution

WB (1:1000); optimal dilutions for assays should be determined by the user.

### Host Species

Rabbit

### Immunogen Species

Human

### Immunogen

N-terminal region of SOD1, exposed dimer interface (EDI)

### Concentration

1 mg/ml

### Conjugates

Alkaline Phosphatase, APC, ATTO 390, ATTO 488, ATTO 565, ATTO 594, ATTO 633, ATTO 655, ATTO 680, ATTO 700, Biotin, FITC, HRP, PE/ATTO 594, PerCP, RPE, Streptavidin, Unconjugated

## Properties

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### Storage Buffer

PBS, 50% glycerol, 0.09% sodium azide

### Storage Temperature

-20°C

### Shipping Temperature

Blue Ice or 4°C

### Purification

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Protein A purified

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### Clonality

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Polyclonal

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### Specificity

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Recognizes a conformation specific epitope where the dimer interface is exposed.

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### Cite This Product

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Rabbit Anti-Human SOD1 Polyclonal (StressMarq Biosciences Inc., Victoria BC CANADA, Catalog # SPC-206)

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### Certificate Of Analysis

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1µg/ml of SPC-206 was sufficient for detection of the exposed dimer interface of SOD1 by colorimetric dot blot analysis using Goat anti-rabbit IgG:HRP as the secondary antibody.

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## Biological Description

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### Alternative Names

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SEDI Antibody, SOD1 EDI Antibody, Superoxide dismutase 1 Antibody, SOD Antibody, SOD1 exposed dimer interface Antibody

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### Research Areas

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Cancer, ALS Disease, Neurodegeneration, Neuroscience, Oxidative Stress

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### Cellular Localization

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Cytoplasm

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### Accession Number

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CAG46542

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### Gene ID

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6647

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### Swiss Prot

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P00441

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### Scientific Background

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Superoxide dismutase (SOD) is an endogenously produced intracellular enzyme present in almost every cell in the body (2). It works by catalyzing the dismutation of the superoxide radical  $O_2^-$  to  $O_2$  and  $H_2O_2$ , which are then metabolized to  $H_2O$  and  $O_2$  by catalase and glutathione peroxidase (1,4). In general, SODs play a major role in antioxidant defense mechanisms (3). There are two main types of SOD in mammalian cells. One form (SOD1) contains Cu and Zn ions as a homodimer and exists in the cytoplasm. The two subunits of 16 kDa each are linked by two cysteines forming an intra-subunit disulphide bridge (2). Misfolding of SOD1 has been implicated in Amyotrophic lateral sclerosis (ALS). Therefore conformation specific antibodies such as SOD1 (EDI), which targets an exposed region of the dimer interface (EDI) of SOD1, are useful for determining the conformation of SOD1 in affected tissues (5). This antibody can be used in conjunction with SOD1 (U $\beta$ B) (SPC-205D) which detects an unfolded beta barrel (U $\beta$ B) of SOD1.

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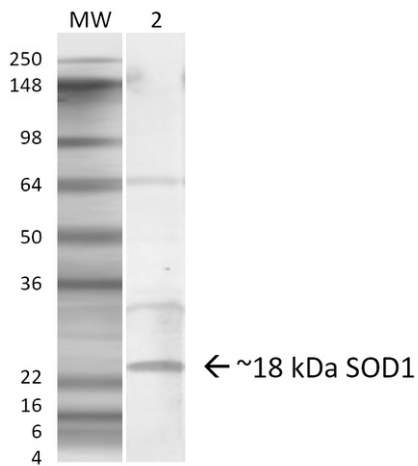
### References

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1. Barrister J.V., et al. (1987). Crit. Rev. Biochem. 22:111-180.
  2. Furukawa Y., and OHalloran T. (2006) Antioxid Redox Signal. 8(5-6):847-67.
  3. Gao B., et al. (2003) Am J Physiol Lung Cell Mol Physiol. 284:L917-L925.
  4. Hassan H.M. (1988) Free Radical Biol. Med. 5:377-385.
  5. Kerman A., et al. (2010) Acta Neuropathol. 119:335-344.
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## Product Images

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Western blot analysis of Mouse Lung showing detection of ~18 kDa SOD1 (EDI) protein using Rabbit Anti-SOD1 (EDI) Polyclonal Antibody (SPC-206). Lane 1: Molecular Weight Ladder. Lane 2: Mouse Lung. Load: 20  $\mu$ g. Primary Antibody: Rabbit Anti-SOD1 (EDI) Polyclonal Antibody (SPC-206) at 1:1000. Predicted/Observed Size: ~18 kDa.

## Product Citations (0)

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Currently there are no citations for this product.

## Reviews

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There are no reviews yet.