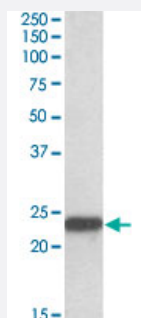


# SOD2 polyclonal antibody

Catalog # PAB19634

Size 100 ug

## Applications



### Western Blot (Tissue lysate)

SOD2 polyclonal antibody (Cat # PAB19634) (0.1 ug/mL) staining of mouse spinal cord lysate (35 ug protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

## Specification

|                             |                                                                                                                                                                                            |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Description</b>  | Goat polyclonal antibody raised against synthetic peptide of SOD2.                                                                                                                         |
| <b>Immunogen</b>            | A synthetic peptide corresponding to amino acids 119-130 at internal region of human SOD2.                                                                                                 |
| <b>Sequence</b>             | C-EAIKRDFGSFDK                                                                                                                                                                             |
| <b>Host</b>                 | Goat                                                                                                                                                                                       |
| <b>Theoretical MW (kDa)</b> | 24.8, 24.6                                                                                                                                                                                 |
| <b>Reactivity</b>           | Human, Mouse, Rat                                                                                                                                                                          |
| <b>Specificity</b>          | The immunizing peptide represents the acetylation site including K122 according to isoform A. This antibody is expected to recognize both reported isoforms (NP_000627.2; NP_001019637.1). |
| <b>Form</b>                 | Liquid                                                                                                                                                                                     |
| <b>Purification</b>         | Antigen affinity purification                                                                                                                                                              |
| <b>Recommend Usage</b>      | Western Blot (0.01-0.1 ug/mL)<br>The optimal working dilution should be determined by the end user.                                                                                        |
| <b>Storage Buffer</b>       | In Tris saline, pH 7.3 (0.5% BSA, 0.02% sodium azide)                                                                                                                                      |

**Storage Instruction**

Store at -20°C.  
Aliquot to avoid repeated freezing and thawing.

**Note**

This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

## Applications

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- Enzyme-linked Immunoabsorbent Assay

## Gene Info — SOD2

**Entrez GeneID**[6648](#)**Protein Accession#**[NP\\_000627.2;NP\\_001019637.1](#)**Gene Name**

SOD2

**Gene Alias**

IPO-B, MNSOD, Mn-SOD

**Gene Description**

superoxide dismutase 2, mitochondrial

**Omim ID**[147460](#)**Gene Ontology**[Hyperlink](#)**Gene Summary**

This gene is a member of the iron/manganese superoxide dismutase family. It encodes a mitochondrial protein that forms a homotetramer and binds one manganese ion per subunit. This protein binds to the superoxide byproducts of oxidative phosphorylation and converts them to hydrogen peroxide and diatomic oxygen. Mutations in this gene have been associated with idiopathic cardiomyopathy (IDC), premature aging, sporadic motor neuron disease, and cancer. Alternate transcriptional splice variants, encoding different isoforms, have been characterized. [provided by RefSeq]

**Other Designations**

Mn superoxide dismutase|OTTHUMP00000017530|OTTHUMP00000017531|indophenoloxidase B|manganese superoxide dismutase|manganese-containing superoxide dismutase|mangano-superoxide dismutase

## Publication Reference

- [Dried plum and chokeberry ameliorate d-galactose-induced aging in mice by regulation of PI3k/Akt-mediated Nrf2 and Nf-kB pathways.](#)

Jeong H, Liu Y, Kim HS.

Experimental Gerontology 2017 May; 95:16.

Application: WB-Ti, Mouse, Mouse liver

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