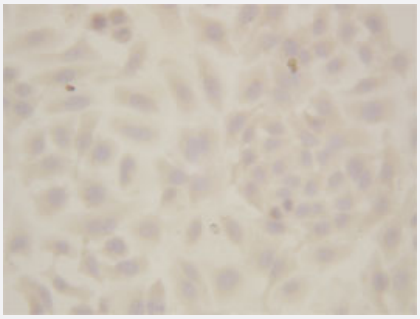
# SOD1 polyclonal antibody

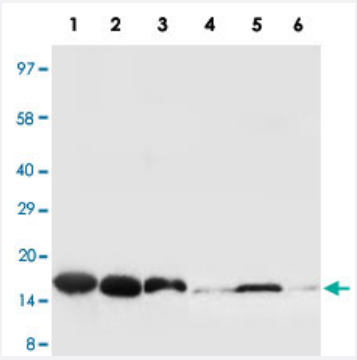
Catalog # PAB18299 Size 100 ug

## Applications



### Immunocytochemistry

Immunocytochemcal staining of HeLa cell with SOD1 polyclonal antibody (Cat # PAB18299).




### Western Blot

Western blot analysis with SOD1 polyclonal antibody (Cat # PAB18299). 1 : Rat liver tissue lysate. 2 : Human placenta tissue lysate. 3 : MCF-7 whole cell lysate. 4 : CEM whole cell lysate. 5 : SW 620 whole cell lysate. 6 : COLO 320 whole cell lysate.

## Specification

| | |
|---|---|
| **Product Description** | Rabbit polyclonal antibody raised against synthetic peptide of SOD1. |
| **Immunogen** | A synthetic peptide corresponding to amino acids at C-terminus of human SOD1. |
| **Host** | Rabbit |
| **Reactivity** | Human, Mouse, Rat |
| **Form** | Lyophilized |
| **Purification** | Immunoaffinity purification |

Copyright © 2023 Abnova Corporation. All Rights Reserved.

| | |
|---|---|
| **Concentration** | 0.5 mg/mL |
| **Isotype** | IgG |
| **Recommend Usage** | Western Blot (1 ug/mL)<br>Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)(1 ug/mL)<br>Immunohistochemistry (Frozen sections)(1 ug/mL)<br>Immunocytochemistry (1 ug/mL)<br>The optimal working dilution should be determined by the end user. |
| **Storage Buffer** | Lyophilized from 0.9 mg NaCl, 0.2 mg $Na_2HPO_4$ (5 mg BSA, 0.05 mg sodium azide, 0.05 mg Thimerosal) |
| **Storage Instruction** | Store at -20°C on dry atmosphere.<br>After reconstitution with 200 uL of deionized water and concentration will be 500 ug/mL, store at -20°C or lower.<br>Aliquot to avoid repeated freezing and thawing. |
| **Note** | This product contains sodium azide and thimerosal: POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |

## Applications

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)
- Immunohistochemistry (Frozen sections)
- Immunocytochemistry

  Immunocytochemcal staining of HeLa cell with SOD1 polyclonal antibody (Cat # PAB18299).
- Western Blot

  Western blot analysis with SOD1 polyclonal antibody (Cat # PAB18299).
  1 : Rat liver tissue lysate. 2 : Human placenta tissue lysate. 3 : MCF-7 whole cell lysate. 4 : CEM whole cell lysate. 5 : SW 620 whole cell lysate. 6 : COLO 320 whole cell lysate.

## Gene Info — SOD1

| | |
|---|---|
| **Entrez GeneID** | 6647 |
| **Gene Name** | SOD1 |
| **Gene Alias** | ALS, ALS1, IPOA, SOD, homodimer |
| **Gene Description** | superoxide dismutase 1, soluble |

Copyright © 2023 Abnova Corporation. All Rights Reserved.

| | |
|---|---|
| **Omim ID** | 105400 147450 |
| **Gene Ontology** | Hyperlink |
| **Gene Summary** | The protein encoded by this gene binds copper and zinc ions and is one of two isozymes responsible for destroying free superoxide radicals in the body. The encoded isozyme is a soluble cytoplasmic protein, acting as a homodimer to convert naturally-occuring but harmful superoxide radicals to molecular oxygen and hydrogen peroxide. The other isozyme is a mitochondrial protein. Mutations in this gene have been implicated as causes of familial amyotrophic lateral sclerosis. Rare transcript variants have been reported for this gene. [provided by RefSeq |
| **Other Designations** | Cu /Zn superoxide dismutase\|Cu/Zn superoxide dismutase\|SOD, soluble\|indophenoloxidase A\|superoxide dismutase, cystolic |

## Publication Reference

- Calreticulin Shortage Results in Disturbance of Calcium Storage, Mitochondrial Disease, and Kidney Injury.

  Asima Tayyeb, Gry H Dihazi, Bjorn Tampe, Michael Zeisberg, Desiree Tampe, Samy Hakroush, Charlotte Buhrig, Jenny Frese, Nazli Serin, Marwa Eltoweissy, Gerhard A Muller, Hassan Dihazi

  Cells 2022 Apr; 11(8):0.

## Pathway

- Amyotrophic lateral sclerosis (ALS)
- Prion diseases

## Disease

- Acute Disease
- Albuminuria
- Alzheimer disease
- Amyotrophic lateral sclerosis
- Auditory Threshold
- Barrett Esophagus
- Birth Weight

Copyright © 2023 Abnova Corporation. All Rights Reserved.

- Brain Neoplasms
- Breast cancer
- Breast Neoplasms
- Carcinoma
- Cardiovascular Diseases
- Chronic Disease
- Cognition
- Cognition Disorders
- Coronary Artery Disease
- Dementia
- Diabetes Mellitus
- Diabetic Angiopathies
- Diabetic Nephropathies
- Diabetic Retinopathy
- Disease Progression
- DNA Damage
- Edema
- Encephalitis
- Genetic Predisposition to Disease
- Glioblastoma
- Glioma
- Hearing Loss
- Hemorrhage
- Hepatitis
- Hypercholesterolemia
- Keratoconus

Copyright © 2023 Abnova Corporation. All Rights Reserved.

- Kidney Failure
- Leukemia
- Liver Cirrhosis
- Lung Neoplasms
- Lymphoma
- Meningeal Neoplasms
- Meningioma
- Motor Neuron Disease
- Multiple Sclerosis
- Nerve Degeneration
- Neuroblastoma
- Neuropsychological Tests
- Occupational Diseases
- Ovarian cancer
- Pre-Eclampsia
- Prostate cancer
- Prostatic Neoplasms
- Pulmonary Disease
- Reaction Time
- Schizophrenia
- Schizophrenic Psychology
- Sensory Thresholds
- Urinary Bladder Neoplasms
- Urologic Diseases

- Weight Gain
- Werner syndrome

Copyright © 2023 Abnova Corporation. All Rights Reserved.