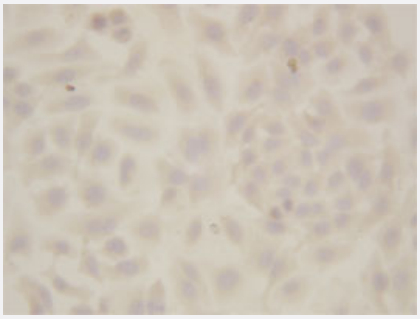
SOD1 polyclonal antibody

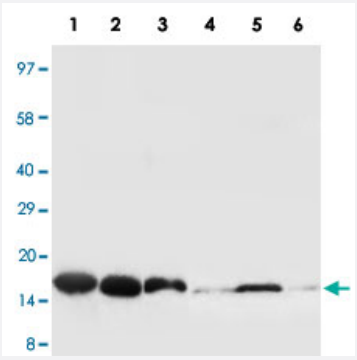
Catalog # PAB18299 Size 100 ug

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

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Concentration	0.5 mg/mL
Isotype	IgG
Recommend Usage	Western Blot (1 ug/mL) Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)(1 ug/mL) Immunohistochemistry (Frozen sections)(1 ug/mL) Immunocytochemistry (1 ug/mL) 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. After reconstitution with 200 uL of deionized water and concentration will be 500 ug/mL, store at -20°C or lower. 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

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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

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- 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

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- 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

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