SOD1 polyclonal antibody

Catalog # PAB14492 Size 100 uL

Specification

Product Description	Rabbit polyclonal antibody raised against SOD1.
Immunogen	Human SOD1 (Cu/Zn Superoxide dismutase).
Host	Rabbit
Reactivity	Bovine, Dog, Frog, Hamster, Human, Monkey, Mouse, Pig, Rabbit, Rat, Sheep
Specificity	This antibody detects a 23 KDa protein in human (and a 19 KDa protein in other species) on SDS-PAGE immunoblots, corresponding to the molecular mass of Cu/Zn SOD.
Form	Liquid
Recommend Usage	Western Blot (0.2 ug/mL) Immunohistochemistry (1 ug/mL) Immunoprecipitation (10 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.0 (50% glycerol, 0.09% 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

- Immunohistochemistry
- Enzyme-linked Immunoabsorbent Assay
- Immunoprecipitation

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- Western Blot

Gene Info — SOD1

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

- Identification of differentially expressed proteins in fresh and frozen-thawed boar spermatozoa by iTRAQ-coupled 2D LC-MS/MS.

  Xiaoli Chen, Huabin Zhu, Chuanhuo Hu, Haisheng Hao, Junfang Zhang, Kunpeng Li, Xueming Zhao, Tong Qin, Kan Zhao, Huishan Zhu, Dong Wang

  Reproduction 2014 Mar; 147(3):321-30.

  Application: WB

Pathway

- Amyotrophic lateral sclerosis (ALS)
- Prion diseases

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Disease

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

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- Encephalitis
- Genetic Predisposition to Disease
- Glioblastoma
- Glioma
- Hearing Loss
- Hemorrhage
- Hepatitis
- Hypercholesterolemia
- Keratoconus
- 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

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- Pulmonary Disease
- Reaction Time
- Schizophrenia
- Schizophrenic Psychology
- Sensory Thresholds
- Urinary Bladder Neoplasms
- Urologic Diseases
- Weight Gain
- Werner syndrome

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