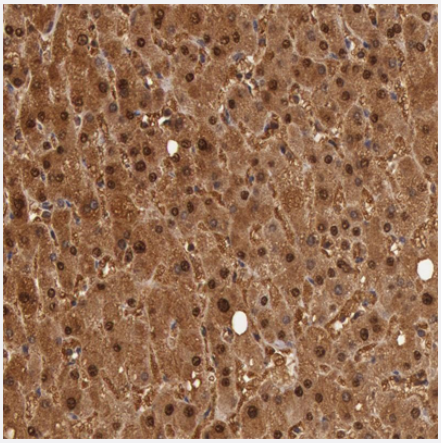
SOD1 polyclonal antibody

Catalog # PAB29364 Size 100 uL

Applications



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

Immunohistochemical staining of human liver with SOD1 polyclonal antibody (Cat # PAB29364) shows nuclear and cytoplasmic positivity in hepatocytes at 1:2500-1:5000 dilution.



Western Blot (Cell lysate)

Western blot analysis of Lane 1: NIH-3T3 cell lysate (Mouse embryonic fibroblast cells) Lane 2: NBT-II cell lysate (Rat Wistar bladder tumour cells) Lane 3: PC12 cell lysate (Pheochromocytoma of rat adrenal medulla) with SOD1 polyclonal antibody (Cat # PAB29364) at 1:250-1:500 dilution.

Specification

Product Description	Rabbit polyclonal antibody raised against recombinant human SOD1.
Immunogen	Recombinant protein corresponding to human SOD1.
Sequence	PVQGIINFEQKESNGPVKVWGSIKGLTEGLHGFHVHEFGDNTAGCTSAGPHFNPLSRKHGGPKD EERHVGDLGNVTADKDGVADVSIEDSVISLSGDHCIIGRTLVVHEKADDLGKGGNEESTKTGNAG SRLACG
Host	Rabbit

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Reactivity	Human, Mouse, Rat
Form	Liquid
Purification	Antigen affinity purification
Isotype	IgG
Recommend Usage	Immunohistochemistry (1:2500-1:5000) Immunofluorescence (1-4 ug/mL) Western Blot (1:250-1:500) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.2 (40% glycerol, 0.02% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

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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

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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

Pathway

- Amyotrophic lateral sclerosis (ALS)
- Prion diseases

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

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- 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
- Kidney Failure
- Leukemia
- Liver Cirrhosis
- Lung Neoplasms
- Lymphoma
- Meningeal Neoplasms
- Meningioma

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- 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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