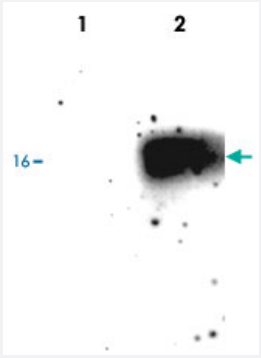
SOD1 polyclonal antibody

Catalog # PAB0724 Size 100 uL

Applications



Western Blot

Western blot detection of human SOD1 using rabbit SOD1 polyclonal antibody (Cat # PAB0724) at a dilution of 1 in 500. This antibody detects a band of 16 KDa in human Jurkat T cell extracts (lane 2) . Its specificity for human SOD1 is shown by the lack of reactivity with mouse brain tissue extracts (lane 1) .

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of SOD1.
Immunogen	A synthetic peptide (conjugated diphtheria toxoid) corresponding to amino acids 24-36 of human SOD1.
Sequence	ESNGPVKVWGSIK
Host	Rabbit
Reactivity	Human
Form	Lyophilized
Recommend Usage	Western Blot (1:500-1:1000) The optimal dilution should be determined by the end user.
Storage Buffer	Lyophilized from PBS
Storage Instruction	Store at 4°C on dry atmosphere. After reconstitution with deionized water, store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

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- Western Blot

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Gene Info — SOD1

Entrez GeneID	6647
Protein Accession#	P00441
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 respons ible for destroying free superoxide radicals in the body. The encoded isozyme is a soluble cytopla smic 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. Mutati ons in this gene have been implicated as causes of familial amyotrophic lateral sclerosis. Rare tra nscript variants have been reported for this gene. [provided by RefSeq
Other Designations	Cu /Zn superoxide dismutase|Cu/Zn superoxide dismutase|SOD, soluble|indophenoloxidase A|su peroxide dismutase, cystolic

Pathway

- Amyotrophic lateral sclerosis (ALS)
- Prion diseases

Disease

- Acute Disease

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- 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
- Encephalitis
- Genetic Predisposition to Disease
- Glioblastoma

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- 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
- Pulmonary Disease
- Reaction Time
- Schizophrenia

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- Schizophrenic Psychology
- Sensory Thresholds
- Urinary Bladder Neoplasms
- Urologic Diseases
- Weight Gain
- Werner syndrome

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