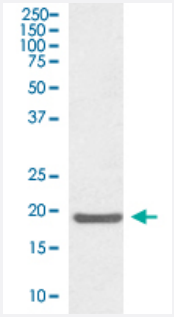
# SOD1 monoclonal antibody, clone AOEI-19

Catalog # MAB20726 Size 100 uL

## Applications




### Western Blot (Cell lysate)

Western Blot analysis of Jurkat cell lysate with SOD1 monoclonal antibody, clone AOEI-19 (Cat # MAB20726).

## Specification

| | |
|---|---|
| **Product Description** | Rabbit monoclonal antibody raised against synthetic peptide of human SOD1. |
| **Immunogen** | A synthetic peptide corresponding to human SOD1. |
| **Host** | Rabbit |
| **Theoretical MW (kDa)** | 15.936 |
| **Reactivity** | Human |
| **Form** | Liquid |
| **Purification** | Affinity purification |
| **Isotype** | IgG |
| **Recommend Usage** | Flow Cytometry (1:50)<br>Immunocytochemistry (1:50-1:200)<br>Immunofluorescence (1:50-1:200)<br>Immunohistochemistry (1:50-1:200)<br>Western Blot (1:500-1:2000)<br>The optimal working dilution should be determined by the end user. |

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| | |
|---|---|
| **Storage Buffer** | In PBS, 150 mM NaCl, pH 7.4 (50% glycerol, 0.02% sodium azide). |
| **Storage Instruction** | Store at -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and st ored frozen at -20°C for a longer time. 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. |

## Applications

- Immunohistochemistry
- Immunofluorescence
- Immunocytochemistry
- Flow Cytometry
- Western Blot (Cell lysate)

  Western Blot analysis of Jurkat cell lysate with SOD1 monoclonal antibody, clone AOEI-19 (Cat # MAB20726).

## 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 |

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| | |
|---|---|
| **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
- 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

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- 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
- Motor Neuron Disease
- Multiple Sclerosis
- Nerve Degeneration

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- 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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