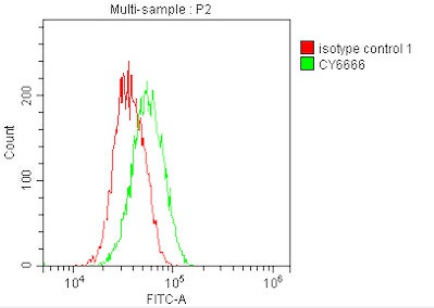
RecomAb™

# SOD1 recombinant monoclonal antibody, clone 3E5

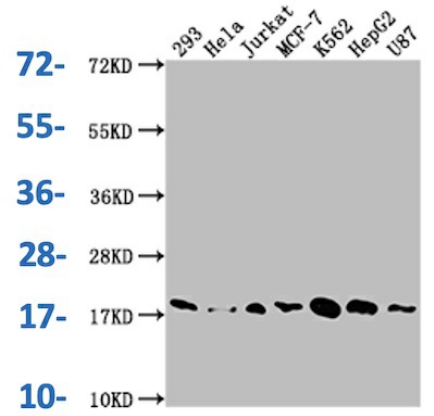
Catalog # RAB04055 Size 100 uL

## Applications




### Flow Cytometry

Overlay histogram showing Jurkat cells stained with SOD1 recombinant monoclonal antibody, clone 3E5 (red line) at 1:50.




### Western Blot

Western Blot analysis of Lane 1: 293 whole cell lysate; Lane 2: Hela whole cell lysate; Lane 3: Jurkat whole cell lysate; Lane 4: MCF-7 whole cell lysate; Lane 5: K562 whole cell lysate; Lane 6: HepG2 whole cell lysate; Lane 7: U87 whole cell lysate.

## Specification

| | |
|---|---|
| **Product Description** | Rabbit recombinant monoclonal antibody raised against human SOD1. |
| **Antibody Species** | Rabbit |
| **Immunogen** | Original antibody is raised against recombinant protein corresponding to full length human SOD1. |
| **Reactivity** | Human |
| **Form** | Liquid |

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|---|---|
| **Preparation Method** | Mammalian cell (HEK293) expression system |
| **Purification** | Affinity-chromatography |
| **Isotype** | IgG |
| **Recommend Usage** | ELISA<br>Flow Cytometry (1:20-1:200)<br>Western Blot (1:500-1:5000)<br>The optimal working dilution should be determined by the end user. |
| **Storage Buffer** | In PBS, pH7.4 (150mM NaCl, 50% glycerol and 0.02% sodium azide) |
| **Storage Instruction** | Store at -20 °C or -80 °C.<br>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. |

## Applications

- Flow Cytometry

  Overlay histogram showing Jurkat cells stained with SOD1 recombinant monoclonal antibody, clone 3E5 (red line) at 1:50.

- Enzyme-linked Immunoabsorbent Assay

- Western Blot

  Western Blot analysis of Lane 1: 293 whole cell lysate; Lane 2: Hela whole cell lysate; Lane 3: Jurkat whole cell lysate; Lane 4: MCF-7 whole cell lysate; Lane 5: K562 whole cell lysate; Lane 6: HepG2 whole cell lysate; Lane 7: U87 whole cell lysate.

## 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 |

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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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