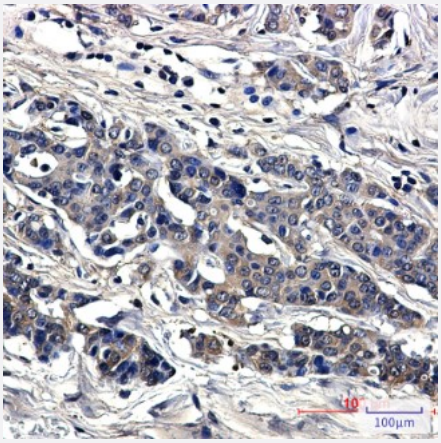
RecomAb™

# SOD1 recombinant monoclonal antibody, clone R08-5A5

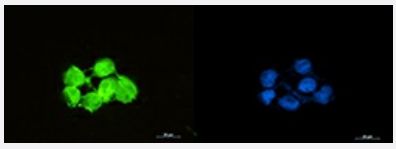
Catalog # RAB01352 Size 100 uL

## Applications




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

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human breast cancer with SOD1 recombinant monoclonal antibody, clone R08-5A5 (Cat # RAB01352).



### Immunocytochemistry

Immunocytochemistry analysis of Superoxide Dismutase 1 (green) in HCT116 using Superoxide Dismutase 1 antibody,and DAPI(blue).

### Western Blot

Western Blot analysis of A549, HL-60, C6 lysates with SOD1 recombinant monoclonal antibody, clone R08-5A5 (Cat # RAB01352).

## Specification

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| | |
|---|---|
| **Product Description** | Rabbit recombinant monoclonal antibody raised against human SOD1. |
| **Antibody Species** | Rabbit |
| **Immunogen** | Original antibody is raised against recombinant protein corresponding to human SOD1. |
| **Theoretical MW (kDa)** | Calculated MW: 16 kD |
| **Reactivity** | Human |
| **Form** | Liquid |
| **Preparation Method** | Mammalian cell (CHO) expression system |
| **Purification** | Affinity purification |
| **Isotype** | IgG |
| **Recommend Usage** | Immunocytochemistry<br>Immunofluorescence<br>Immunohistochemistry (Frozen sections)<br>Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)<br>Western Blot<br>The optimal working dilution should be determined by the end user. |
| **Storage Buffer** | In 50 mM Tris-Glycine pH 7.4 (0.15 M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% BSA). |
| **Storage Instruction** | Store at 4°C. For longer storage, aliquot and store at -20°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

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

  Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human breast cancer with SOD1 recombinant monoclonal antibody, clone R08-5A5 (Cat # RAB01352).

- Immunohistochemistry (Frozen sections)

- Immunofluorescence

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- Immunocytochemistry

  Immunocytochemistry analysis of Superoxide Dismutase 1 (green) in HCT116 using Superoxide Dismutase 1 antibody,and DAPI(blue).

- Western Blot

  Western Blot analysis of A549, HL-60, C6 lysates with SOD1 recombinant monoclonal antibody, clone R08-5A5 (Cat # RAB01352).

## 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

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- 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
- Pulmonary Disease
- Reaction Time

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

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