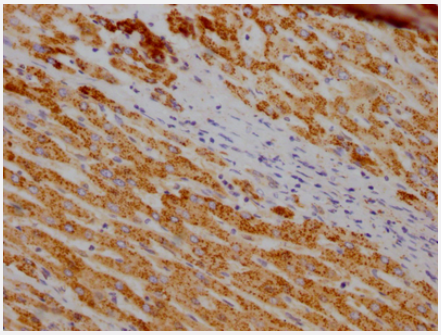
RecomAb™

# SOD2 recombinant monoclonal antibody, clone 10F6

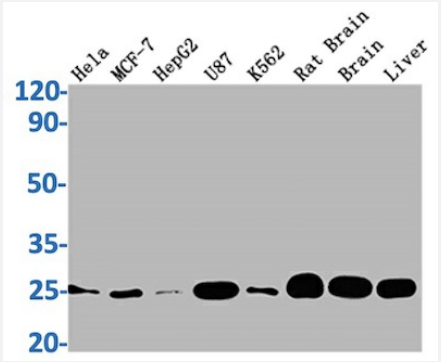
Catalog # RAB04032 Size 100 uL

## Applications



### Immunohistochemistry

Immunohistochemistry image of SOD2 recombinant monoclonal antibody, clone 10F6 diluted at 1:100 and staining in paraffin-embedded human liver cancer performed on a Leica BondTM system.




### Western Blot

Western Blot analysis of Lane 1: Hela whole cell lysate; Lane 2: MCF-7 whole cell lysate; Lane 3: HepG2 whole cell lysate; Lane 4: U87 whole cell lysate; Lane 5: K562 whole cell lysate; Lane 6: Rat brain tissue; Lane 7: Brain tissue; Lane 8: Liver tissue.

## Specification

| | |
|---|---|
| **Product Description** | Rabbit recombinant monoclonal antibody raised against human and rat SOD2. |
| **Antibody Species** | Rabbit |
| **Immunogen** | Original antibody is raised against recombinant protein corresponding to full length human SOD2. |
| **Reactivity** | Human, Rat |
| **Form** | Liquid |
| **Preparation Method** | Mammalian cell (HEK293) expression system |

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| | |
|---|---|
| **Purification** | Affinity-chromatography |
| **Isotype** | IgG |
| **Recommend Usage** | ELISA<br>Immunohistochemistry (1:50-1:200)<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

- Immunohistochemistry

  Immunohistochemistry image of SOD2 recombinant monoclonal antibody, clone 10F6 diluted at 1:100 and staining in paraffin-embedded human liver cancer performed on a Leica BondTM system.

- Enzyme-linked Immunoabsorbent Assay

- Western Blot

  Western Blot analysis of Lane 1: Hela whole cell lysate; Lane 2: MCF-7 whole cell lysate; Lane 3: HepG2 whole cell lysate; Lane 4: U87 whole cell lysate; Lane 5: K562 whole cell lysate; Lane 6: Rat brain tissue; Lane 7: Brain tissue; Lane 8: Liver tissue.

## Gene Info — SOD2

| | |
|---|---|
| **Entrez GeneID** | 6648 |
| **Protein Accession#** | P04179 |
| **Gene Name** | SOD2 |
| **Gene Alias** | IPO-B, MNSOD, Mn-SOD |
| **Gene Description** | superoxide dismutase 2, mitochondrial |
| **Omim ID** | 147460 |
| **Gene Ontology** | Hyperlink |

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| | |
|---|---|
| **Gene Summary** | This gene is a member of the iron/manganese superoxide dismutase family. It encodes a mitochondrial protein that forms a homotetramer and binds one manganese ion per subunit. This protein binds to the superoxide byproducts of oxidative phosphorylation and converts them to hydrogen peroxide and diatomic oxygen. Mutations in this gene have been associated with idiopathic cardiomyopathy (IDC), premature aging, sporadic motor neuron disease, and cancer. Alternate transcriptional splice variants, encoding different isoforms, have been characterized. [provided by RefSeq |
| **Other Designations** | Mn superoxide dismutase\|OTTHUMP00000017530\|OTTHUMP00000017531\|indophenoloxidase B\|manganese superoxide dismutase\|manganese-containing superoxide dismutase\|mangano-superoxide dismutase |

## Disease

- Acute Disease
- Adenocarcinoma
- Akathisia
- Albuminuria
- Alcoholism
- Alzheimer disease
- Amphetamine-Related Disorders
- Angina Pectoris
- Arsenic Poisoning
- Arthritis
- Asbestosis
- Asthma
- Ataxia telangiectasia
- Atherosclerosis
- Barrett Esophagus
- Behcet Syndrome
- Biliary Tract Neoplasms
- Bipolar Disorder

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- Birth Weight
- Brain Neoplasms
- Breast cancer
- Breast Neoplasms
- Bronchial Hyperreactivity
- Calcinosis
- Carcinoma
- Cardiomyopathies
- Cardiovascular Diseases
- Carotid Artery Diseases
- Cervical Intraepithelial Neoplasia
- Choroid Diseases
- Chromosome Aberrations
- Chronic Disease
- Cocarcinogenesis
- Cognition
- Colitis
- Colorectal Neoplasms
- Coronary Artery Disease
- Coronary Disease
- Dermatitis
- Diabetes Complications
- Diabetes Mellitus
- Diabetic Angiopathies
- Diabetic Nephropathies
- Diabetic Neuropathies

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- Diabetic Retinopathy
- Disease Progression
- DNA Damage
- Drug Toxicity
- Drug-Induced Liver Injury
- Dyskinesia
- Edema
- Esophageal Neoplasms
- Esophagitis
- Exfoliation Syndrome
- Fatty Liver
- Fibrosis
- Genetic Predisposition to Disease
- Glaucoma
- Glioblastoma
- Glioma
- Glomerulonephritis
- Glucose Intolerance
- Head and Neck Neoplasms
- Hearing Loss
- Helicobacter Infections
- Hemochromatosis
- Hepatitis
- Hepatitis C
- Hereditary hemochromatosis
- Hypercholesterolemia

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- Hypertension
- Infertility
- Inflammation
- Insulin Resistance
- Iron Overload
- Kidney Failure
- Laryngeal Neoplasms
- Leber hereditary optic neuropathy
- Leukemia
- Liver Cirrhosis
- Liver Diseases
- Liver Neoplasms
- Lung Neoplasms
- Lupus Erythematosus
- Lymphoma
- Macular Degeneration
- Macular Edema
- Malnutrition
- Meningeal Neoplasms
- Meningioma
- Mesothelioma
- Mood Disorders
- Mouth Neoplasms
- Movement Disorders
- Multiple Chemical Sensitivity
- Myocardial Infarction

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- Neoplasm Invasiveness
- Neoplasms
- Obesity
- Occupational Diseases
- Optic Atrophy
- Ovarian cancer
- Ovarian Neoplasms
- Pancreatic cancer
- Pancreatic Neoplasms
- Pancreatitis
- Papillomavirus Infections
- Parkinson disease
- Pelvic Pain
- Pharyngeal Neoplasms
- Pleural Neoplasms
- Pneumoconiosis
- Poisoning
- Postoperative Complications
- Precancerous Conditions
- Pre-Eclampsia
- Pregnancy Complications
- Prostate cancer
- Prostatic Neoplasms
- Prostatitis
- Pseudoxanthoma Elasticum
- Psychiatric Status Rating Scales

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- Psychoses
- Pulmonary Disease
- Radiation Injuries
- Raynaud Disease
- Respiratory Insufficiency
- Schizophrenia
- Schizophrenic Psychology
- Sepsis
- Skin Neoplasms
- Spondylitis
- Stomach Neoplasms
- Stroke
- Substance-Related Disorders
- Syndrome
- Tobacco Use Disorder
- Urinary Bladder Neoplasms
- Urolithiasis
- Uterine Cervical Neoplasms
- Uveitis
- Varicocele
- Weight Gain
- Werner syndrome

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