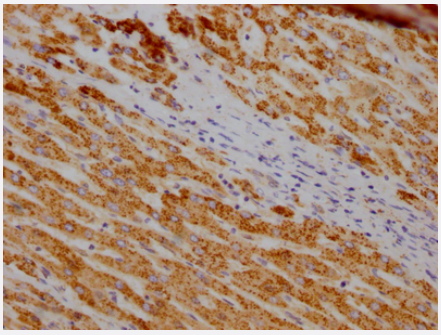
RecomAb™ Sm Size

SOD2 recombinant monoclonal antibody, clone 10F6

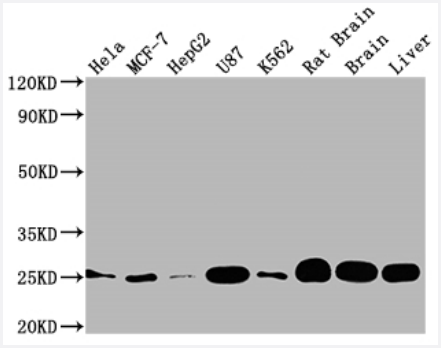
Catalog # RAB08087 Size 50 uL

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 Bond™ 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

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Form	Liquid
Preparation Method	Mammalian cell (HEK293) expression system
Purification	Affinity-chromatography
Isotype	IgG
Recommend Usage	ELISA Immunohistochemistry (1:50-1:200) Western Blot (1:500-1:5000) 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. 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 Bond™ 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

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Gene Name	SOD2
Gene Alias	IPO-B, MNSOD, Mn-SOD
Gene Description	superoxide dismutase 2, mitochondrial
Omim ID	147460
Gene Ontology	Hyperlink
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

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- Atherosclerosis
- Barrett Esophagus
- Behcet Syndrome
- Biliary Tract Neoplasms
- Bipolar Disorder
- 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

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- Diabetes Complications
- Diabetes Mellitus
- Diabetic Angiopathies
- Diabetic Nephropathies
- Diabetic Neuropathies
- 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

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- Hemochromatosis
- Hepatitis
- Hepatitis C
- Hereditary hemochromatosis
- Hypercholesterolemia
- 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

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- Mood Disorders
- Mouth Neoplasms
- Movement Disorders
- Multiple Chemical Sensitivity
- Myocardial Infarction
- 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

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- Pregnancy Complications
- Prostate cancer
- Prostatic Neoplasms
- Prostatitis
- Pseudoxanthoma Elasticum
- Psychiatric Status Rating Scales
- 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

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- Weight Gain
- Werner syndrome

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