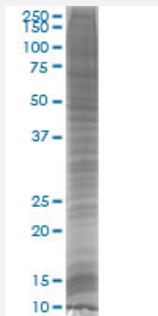


SOD2 293T Cell Transient Overexpression Lysate(Denatured)

Catalog # H00006648-T03

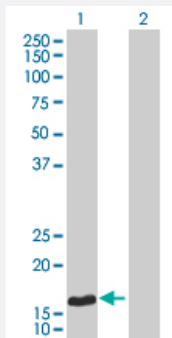
Size 100 uL

Applications



SDS-PAGE Gel

SOD2 transfected lysate



Western Blot

Lane 1: SOD2 transfected lysate (15.51 KDa).

Lane 2: Non-transfected lysate.

Specification

Transfected Cell Line	293T
Plasmid	pCMV-SOD2 full-length
Host	Human
Theoretical MW (kDa)	15.51
Interspecies Antigen Sequence	Mouse (83); Rat (82)

Quality Control Testing

Transient overexpression cell lysate was tested with Anti-SOD2 antibody ([H00006648-B03](#)) by Western Blots.
SDS-PAGE Gel
SOD2 transfected lysate
Western Blot
Lane 1: SOD2 transfected lysate (15.51 KDa).
Lane 2: Non-transfected lysate.

Storage Buffer

1X Sample Buffer (50 mM Tris-HCl, 2% SDS, 10% glycerol, 300 mM 2-mercaptoethanol, 0.01% Bromophenol blue)

Storage Instruction

Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot

Gene Info — SOD2

Entrez GeneID

[6648](#)

GeneBank Accession#

[BC016934](#)

Protein Accession#

[AAH16934](#)

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](#)
- [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](#)
- [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](#)
- [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](#)
- [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](#)
- [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](#)
- [Weight Gain](#)
- [Werner syndrome](#)