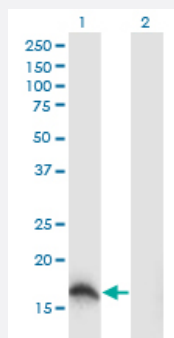


SOD1 monoclonal antibody (M04), clone 10D5

Catalog # H00006647-M04

Size 100 ug

Applications

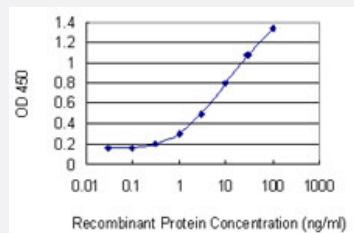


Western Blot (Transfected lysate)

Western Blot analysis of SOD1 expression in transfected 293T cell line by SOD1 monoclonal antibody (M04), clone 10D5.

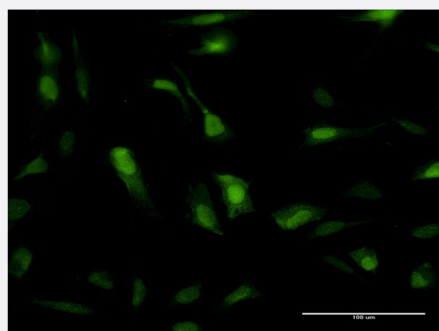
Lane 1: SOD1 transfected lysate (Predicted MW: 15.9 KDa).

Lane 2: Non-transfected lysate.



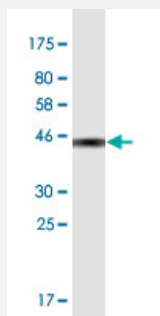
Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged SOD1 is 0.1 ng/ml as a capture antibody.



Immunofluorescence

Immunofluorescence of monoclonal antibody to SOD1 on HeLa cell . [antibody concentration 10 ug/ml]



Western Blot detection against Immunogen (42.68 KDa) .

Specification

Product Description	Mouse monoclonal antibody raised against a full-length recombinant SOD1.
Immunogen	SOD1 (AAH01034, 1 a.a. ~ 154 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	MATKAVCVLKGDGPVQGIINFEQKESNGPVKVWGSIKGLTEGLHGFHVHEFGDNTAGCTSAGPH FNPLSRKHGGPKDEERHVGDLGNVTADKDGADVSIEDSVISLSDHCITGRTLTVVHEKADDLGK GGNEESTKTGNAGSRLACGVIGIAQ
Host	Mouse
Reactivity	Human
Interspecies Antigen Sequence	Mouse (83); Rat (82)
Isotype	IgG2a Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (42.68 KDa) .
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

● Western Blot (Transfected lysate)

Western Blot analysis of SOD1 expression in transfected 293T cell line by SOD1 monoclonal antibody (M04), clone 10D5.

Lane 1: SOD1 transfected lysate (Predicted MW: 15.9 KDa).

Lane 2: Non-transfected lysate.

[Protocol Download](#)

- Western Blot (Recombinant protein)

[Protocol Download](#)

- Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged SOD1 is 0.1 ng/ml as a capture antibody.

[Protocol Download](#)

- ELISA

- Immunofluorescence

Immunofluorescence of monoclonal antibody to SOD1 on HeLa cell . [antibody concentration 10 ug/ml]

Gene Info — SOD1

Entrez GeneID [6647](#)

GeneBank Accession# [BC001034](#)

Protein Accession# [AAH01034](#)

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 responsible for destroying free superoxide radicals in the body. The encoded isozyme is a soluble cytoplasmic protein, acting as a homodimer to convert naturally-occurring 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|indophenoxidase A|superoxide dismutase, cytosolic

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](#)
- [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](#)
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- [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](#)
- [Schizophrenia](#)
- [Schizophrenic Psychology](#)
- [Sensory Thresholds](#)
- [Urinary Bladder Neoplasms](#)
- [Urologic Diseases](#)
- [Weight Gain](#)
- [Werner syndrome](#)