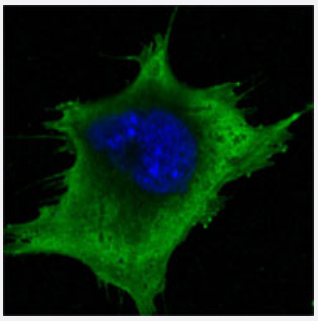
SOD1 monoclonal antibody, clone 6F5

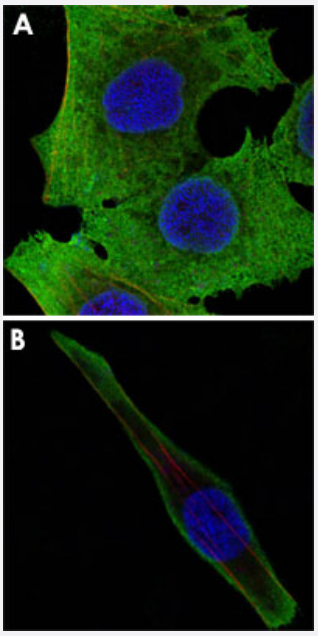
Catalog # MAB10394 Size 100 uL

Applications



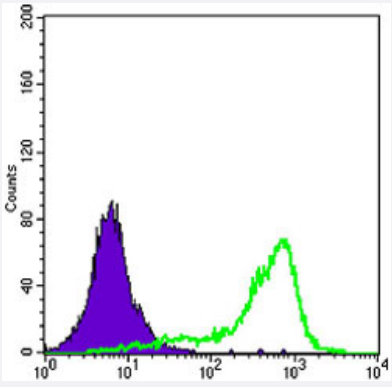
Immunofluorescence

Confocal immunofluorescence analysis of 3T3-L1 cells using SOD1 monoclonal antobody, clone 6F5 (Cat # MAB10394) (green). Blue: DRAQ5 fluorescent DNA dye.



Immunofluorescence

Confocal immunofluorescence analysis of PANC-1 (A) and SK-BR-3 (B) cells using SOD1 monoclonal antobody, clone 6F5 (Cat # MAB10394) (green). Red: Actin filaments have been labeled with DY-554 phalloidin. Blue: DRAQ5 fluorescent DNA dye.



Flow Cytometry

Flow cytometric analysis of A-431 cells using SOD1 monoclonal antobody, clone 6F5 (Cat # MAB10394) (green) and negative control (purple).

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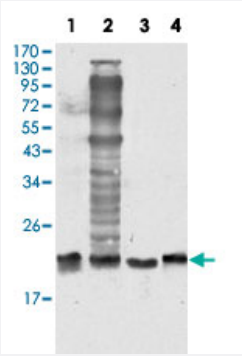

Western Blot (Cell lysate)

Western blot analysis of SOD1 monoclonal antobody, clone 6F5 (Cat # MAB10394) against HeLa (1), NIH/3T3 (2), A-549 (3) and A-431 (4) cell lysate.

Specification

Product Description	Mouse monoclonal antibody raised against recombinant SOD1.
Immunogen	Recombinant protein corresponding to full length human SOD1.
Host	Mouse
Theoretical MW (kDa)	18
Reactivity	Human, Mouse
Form	Liquid
Isotype	IgG1
Recommend Usage	ELISA (1:10000) Flow cytometry (1:200-1:400) Immunofluorescence (1:200-1:1000) Western Blot (1:500-1:2000) The optimal working dilution should be determined by the end user.
Storage Buffer	In ascites (0.03% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°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

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- Immunofluorescence

  Confocal immunofluorescence analysis of 3T3-L1 cells using SOD1 monoclonal antobody, clone 6F5 (Cat # MAB10394) (green). Blue: DRAQ5 fluorescent DNA dye.

- Immunofluorescence

  Confocal immunofluorescence analysis of PANC-1 (A) and SK-BR-3 (B) cells using SOD1 monoclonal antobody, clone 6F5 (Cat # MAB10394) (green).
  Red: Actin filaments have been labeled with DY-554 phalloidin.
  Blue: DRAQ5 fluorescent DNA dye.

- Flow Cytometry

  Flow cytometric analysis of A-431 cells using SOD1 monoclonal antobody, clone 6F5 (Cat # MAB10394) (green) and negative control (purple).

- Enzyme-linked Immunoabsorbent Assay

- Western Blot (Cell lysate)

  Western blot analysis of SOD1 monoclonal antobody, clone 6F5 (Cat # MAB10394) against HeLa (1), NIH/3T3 (2), A-549 (3) and A-431 (4) cell lysate.

Gene Info — SOD1

Entrez GeneID	6647
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-occuring 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|indophenoloxidase A|superoxide dismutase, cystolic

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Publication Reference

- Chronic Restraint Stress Induces Gastric Mucosal Inflammation with Enhanced Oxidative Stress in a Murine Model.

  Maimaiti Yisireyili, Aziguli Alimujiang, Aikebaier Aili, Yiliang Li, Salamaiti Yisireyili, Kelimu Abudureyimu

  Psychol Res Behav Manag 2020 May; 13:383-393.

  Application: WB

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

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- 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
- Lymphoma
- Meningeal Neoplasms
- Meningioma
- Motor Neuron Disease

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- 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

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