

Mouse SOD1 / SOD Monoclonal Antibody | anti-SOD1 antibody

Mouse Monoclonal [clone 2F5] (IgG1) to Bovine SOD1 / SOD

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA51837	Mouse	Bovine, Human, Mouse	ELISA, Immunohistochemistry, Immunohistochemistry

PRODUCT SYNONYMS

SOD1 / SOD; Monoclonal Antibody; Mouse Monoclonal [clone 2F5] (IgG1) to Bovine SOD1 / SOD; Anti-SOD1 / SOD Antibody (clone 2F5) IHC-plus; SOD1; ALS; ALS1; Cu/Zn superoxide dismutase; HSod1; Homodimer; IPOA; SOD; soluble; Superoxide dismutase [Cu-Zn]; Superoxide dismutase 1; Indophenoxidase A; Superoxide dismutase; cystolic; Bovine SOD1; anti-SOD1 antibody

PRODUCT SPECIFICATIONS

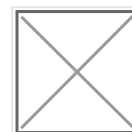
Host	Mouse
Reactivity	Bovine, Human, Mouse
Clonality	Monoclonal
Isotype	IgG1
Clone Number	2F5
Specificity	Recognizes copper/zinc superoxide dismutase (SOD). Superoxide dismutases are ubiquitous metalloproteins that destroy oxygen-mediated free radicals, that are normally produced within the cells, which are toxic to biological systems. There are three forms of superoxide dismutase, including the Fe, mitochondrial (Mn) and the copper/zinc binding (Cu/Zn) form. The Cu/Zn form of SOD is utilized by most eukaryotic organisms. SOD Cu/Zn prevents oxygen-mediated free radical damage by catalyzing the dismutation of the toxic superoxide radical to molecular oxygen and hydrogen peroxide. Does not cross react with immunoglobulins but does react weakly with Mn SOD
Purity/Purification	Protein G Purified
Form/Format	PBS with 0.1% sodium azide and 0.1% BSA. Sourced in TCS.
Concentration	1 mg/ml (varies by lot)
Sequence Length	154
Applicable Applications for anti-SOD1 antibody	ELISA, IHC (Immunohistochemistry), IHC (Immunohistochemistry)
Target Species	Bovine
Immunogen Description	Superoxide dismutase enzyme prepared from bovine erythrocytes.
Immunogen	SOD1 / SOD antibody was raised against superoxide dismutase enzyme prepared from bovine erythrocytes.
Preparation and Storage	+4 degree C or -20 degree C, Avoid repeated freezing and thawing.

IMAGES



IHC (Immunohistochemistry)

Anti-SOD1 antibody IHC of human kidney. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval. Antibody concentration 15 ug/ml.



IHC (Immunohistochemistry)

Anti-SOD1 antibody IHC of human liver. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval. Antibody concentration 15 ug/ml.

ADDITIONAL INFORMATION

Related Product Information for anti-SOD1 antibody	Superoxide dismutases catalyzes the conversion of single electron reduced species of molecular oxygen to hydrogen peroxide and oxygen. Cu, Zn superoxide dismutase (SOD1) is widely distributed and comprises 90% of total SOD. Mutations in SOD1 cause a form of familial ALS. Oxidative modifications and aggregation of SOD1 has been associated with Alzheimer's and Parkinson's disease.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4507149
NCBI GeneID	6647
NCBI Accession #	NP_000445.1
NCBI GenBank Nucleotide #	NM_000454.4
UniProt Accession #	P00441; Q16669; Q16711; Q16838; Q16839; Q16840; Q6NR85; A6NHJ0; D3DSE4
Molecular Weight	15,936 Da
NCBI Official Full Name	superoxide dismutase
NCBI Official Synonym Full Names	superoxide dismutase 1, soluble
NCBI Official Symbol	SOD1
NCBI Official Synonym Symbols	ALS; SOD; ALS1; IPOA; hSod1; HEL-S-44; homodimer
NCBI Protein Information	superoxide dismutase [Cu-Zn]; superoxide dismutase [Cu-Zn]; SOD, soluble; indophenoloxidase A; Cu/Zn superoxide dismutase; superoxide dismutase, cystolic; epididymis secretory protein Li 44
UniProt Protein Name	Superoxide dismutase [Cu-Zn]
UniProt Gene Name	SOD1
UniProt Synonym Gene Names	hSod1
UniProt Entry Name	SODC_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.