Mouse anti-Human SOD1 Monoclonal Antibody | anti-SOD1 antibody

SOD1 antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA48216	**Mouse**	**Human**	**Immunofluorescence, Immunocytochemistry, Flow Cytometry, Functional Assay, Western Blot, ELISA**

PRODUCT SYNONYMS

SOD1; Monoclonal Antibody; SOD1 antibody; Superoxide dismutase 1 soluble; ALS; SOD; ALS1; IPOA; Cu-Zn superoxide dismutase; Superoxide dismutase 1; soluble ALS 1; Amyotrophic lateral sclerosis 1 Amyotrophic lateral sclerosis 1 adult; Cu/Zn SOD; Cu/Zn superoxide dismutase; Homodimer; Indophenoloxidase A; Mn superoxide dismutase; SOD 1; SOD soluble; SOD2; SODC; Superoxide dismutase Cu Zn; Superoxide dismutase cystolic; ; anti-SOD1 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG1, k
Clone Number	AT6F1
Purity/Purification	By protein-A affinity chromatography
Form/Format	Liquid. In phosphate-buffered saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol.
Concentration	1 mg/ml (varies by lot)
Sequence Length	154
Applicable Applications for anti-SOD1 antibody	IF (Immunofluorescence), ICC (Immunocytochemistry), FCM/FACS (Flow Cytometry), WB (Western Blot), ELISA
Antigen Species	Human
Immunogen	Recombinant human SOD1 (1-154aa) purified from E. coli
Clone Note	Anti-human SOD1 mAb, clone AT6F1, is derived from hybridization of mouse F0 myeloma cells with spleen cells from BALB/c mice immunized with a recombinant human SOD1 protein.
Preparation and Storage	Can be stored at 4 degree C. For long term storage, aliquot and store at -20 degree C. Avoid repeated freezing and thawing cycles.

IMAGES

IF (Immunofluorescence)
ICC/IF analysis of SOD1 in Hep3B cells line, stained with DAPI (Blue) for nucleus staining and monoclonal anti-human SOD1 antibody (1:100) with goat anti-mouse IgG-Alexa fluor 488 conjugate (Green).

WB (Western Blot)
The cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human SOD1 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system. Lane 1. : A549 cell lysate Lane 2. : A431 cell lysate Lane 3. : 293T cell lysate Lane 4. : PC3 cell lysate Lane 5. : U87MG cell lysate The recombinant protein (20ng) of SOD two isoform were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human SOD1 (1:1000). Lane 1 : Recombinant protein SOD1 Lane 2 : Recombinant protein SOD2

ADDITIONAL INFORMATION

Related Product Information for anti-SOD1 antibody	Cu/Zn superoxide dismutase (SOD1), is a major antioxidant enzyme that catalyzes the conversion of superoxide anion to hydrogen peroxide and molecular oxygen. SOD1 facilitates the dismutation of oxygen radicals to hydrogen peroxide and also catalyzes pro-oxidant reactions, which include the peroxidase activity and hydroxyl radical generating activity. Also over 100 distinct SOD1 inherited mutations have been identified in the familial form of amyotrophic lateral sclerosis (ALS), a progressive degenerative disease of motor neurons. The mechanism by which mutant SOD1 induces the neurodegeneration observed in ALS is still unclear.
Product Categories/Family for anti-SOD1 antibody	Signal Transduction
References	Deng HX., et al. (1993) Science. 261 (5124): 1047-51.; Valentine JS., et al. (2003) Proc Natl Acad Sci USA. 100 (7): 3617-22.; Rosen DR., et al. (1993) Nature. 362 (6415): 59-62.;

NCBI AND UNIPROT INFORMATION

NCBI GI #	4507149
NCBI GeneID	6647
NCBI Accession #	NP_000445
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
NCBI Official Symbol	SOD1
NCBI Official Synonym Symbols	ALS; SOD; ALS1; IPOA; hSod1; HEL-S-44; homodimer
NCBI Protein Information	superoxide dismutase [Cu-Zn]
UniProt Protein Name	Superoxide dismutase [Cu-Zn]
UniProt Gene Name	**SOD1**
UniProt Synonym Gene Names	hSod1

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.

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Online datasheet: https://stage.aaabiotech.com/monoclonal/sod1-antibody-clone-at6f1-immunofluorescence-immunocytochemistry-flow-cytometry-western-blot-elisa/48216