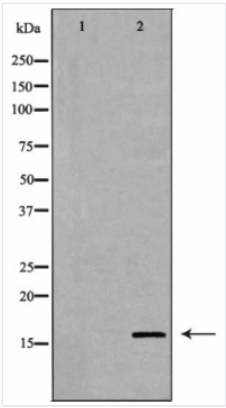
SOD1 Antibody

PRODUCT OVERVIEW

Product Name	SOD1, Antibody
Full Product Name	SOD1 Antibody
Product Gene Name	anti-SOD1 antibody
Product Synonym Names	SOD1; ALS; ALS1; IPOA; SOD; homodimer
Species Reactivity	Human, Mouse, Rat
Form/Format	In phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity/Purification	Immunogen affinity purified
Specificity	SOD1 Antibody detects endogenous levels of total SOD1
Preparation and Storage	Store at-20 degree C for 1 year
Molecular Weight	16kDa
OMIM	105400
3D Structure	ModBase 3D Structure for P00441
Immunogen	Recombinant protein of human SOD1
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-SOD1 antibody	Western Blot (WB), Immunohistochemistry (IHC)
Application Notes for anti-SOD1 antibody	WB: 1:500-1:2000 IHC: 1:50-1:200
Related Product Information for anti-SOD1 antibody	SOD1, Cu/Zn superoxide dismutase, is a major antioxidant enzyme that catalyzes the conversion of superoxide anion to hydrogen peroxide and molecular oxygen (1).
Other Notes	Small volumes of anti-SOD1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for SOD1 purchase	MBS8515994 is an antibody targeting SOD1. Also known as SOD1 Antibody. Reactive in Human, Mouse, Rat.



Western Blot (WB) of anti-SOD1 antibody
Western blot analysis of extracts of Hela and MCF7 cells, usingSOD1 antibody.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SOD1. It may not necessarily be applicable to this product.

NCBI GI #	4507149
NCBI GeneID	6647
NCBI Accession #	NP_000445.1
UniProt Primary Accession #	P00441
UniProt Secondary Accession #	Q16669; Q16711; Q16838; Q16839; Q16840; Q6NR85; A6NHJ0; D3DSE4
UniProt Related Accession #	P00441
GenBank Nucleotide #	NM_000454.4
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
UniProt Protein Name	Superoxide dismutase [Cu-Zn]
UniProt Synonym Protein Names	Superoxide dismutase 1; hSod1
Protein Family	Superoxide dismutase
UniProt Gene Name	SOD1
UniProt Synonym Gene Names	hSod1
NCBI Protein Information	superoxide dismutase [Cu-Zn]
NCBI Summary for SOD1	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, Jul 2008]
UniProt Comments for SOD1	Destroys radicals which are normally produced within the cells and which are toxic to biological systems.
Research Articles on SOD1	**1.** Data provide evidence that metal binding, in addition of being necessary for SOD1 enzymatic activity, is a key factor in the aggregation process of SOD1. In particular, both demetalation and aberrant metal binding have been shown to promote misfolding and aggregation in SOD1 suggesting a possible role of metal binding in SOD1 pathological aggregation. [review]
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