

Product datasheet for **TA302692**

Superoxide Dismutase 1 (SOD1) Goat Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	ELISA: 1:8,000. WB: 0.01-0.03µg/ml.
Reactivity:	Human, Mouse, Rat, Dog
Host:	Goat
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Peptide with sequence C-SRKHGGPKDEERH, from the internal region of the protein sequence according to NP_000445.1.
Formulation:	Supplied at 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin.
Concentration:	lot specific
Purification:	Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide. Supplied at 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin.
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	15.8 kDa
Gene Name:	superoxide dismutase 1, soluble
Database Link:	NP_000445 Entrez Gene 20655 Mouse Entrez Gene 24786 Rat Entrez Gene 403559 Dog Entrez Gene 6647 Human P00441



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Background:

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]

Synonyms:

ALS; ALS1; HEL-S-44; homodimer; hSod1; IPOA; SOD

Protein Families:

Druggable Genome

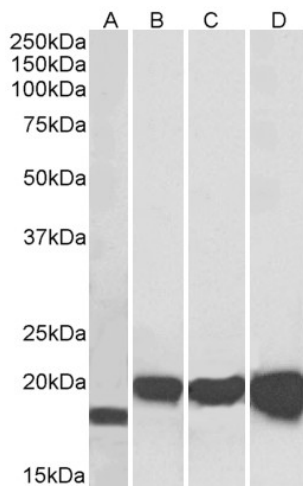
Protein Pathways:

Amyotrophic lateral sclerosis (ALS), Huntington's disease, Prion diseases

Product images:



TA302692 (0.02ug/ml) staining of Mouse Brain lysate (35ug protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.



TA302692 (0.01ug/ml) staining of NIH3T3 (A), HEK293 (B), HepG2 (C) and MCF7 (D) lysates (35ug protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.