

Product datasheet for **TA348970**

SOD2 Goat Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB: 0.01-0.1 ug/ml
Reactivity:	Human, Mouse, Rat (Expected from sequence similarity: Dog, Pig, Cow, Zebrafish)
Host:	Goat
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	The immunogen for Anti-MNSOD (aa119-130) Antibody: Peptide with sequence C-EAIKRDFGSFDK, from the internal region of the protein sequence according to NP_000627.2; NP_001019637.1.
Formulation:	Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin. Aliquot and store at -20°C. Minimize freezing and thawing.
Concentration:	lot specific
Purification:	Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	superoxide dismutase 2, mitochondrial
Database Link:	NP_000627 Entrez Gene 20656 MouseEntrez Gene 24787 RatEntrez Gene 476258 DogEntrez Gene 6648 Human P04179



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Background:

This gene is a member of the iron/manganese superoxide dismutase family. It encodes a mitochondrial protein that forms a homotetramer and binds one manganese ion per subunit. This protein binds to the superoxide byproducts of oxidative phosphorylation and converts them to hydrogen peroxide and diatomic oxygen. Mutations in this gene have been associated with idiopathic cardiomyopathy (IDC), premature aging, sporadic motor neuron disease, and cancer. Alternate transcriptional splice variants, encoding different isoforms, have been characterized. [provided by RefSeq, Jul 2008]

Synonyms:

IPOB; MNSOD; MVCD6

Note:

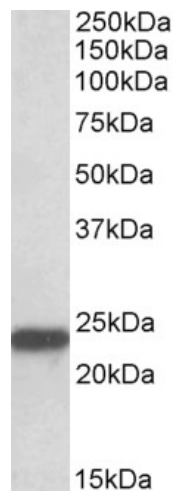
NB: The immunizing peptide represents the acetylation site including K122 according to isoform A. This antibody is expected to recognize both reported isoforms (NP_000627.2; NP_001019637.1) . Reported variants represent identical protein: NP_000627.2; NP_

Protein Families:

Druggable Genome, Transcription Factors

Protein Pathways:

Huntington's disease

Product images:

TA348970 (0.1 ug/ml) staining of Mouse Spinal Cord lysate (35 ug protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.