

SOD1 Rabbit mAb

Catalog No.: A12537

Recombinant

21 Publications

Basic Information

Observed MW

16kDa

Calculated MW

16kDa

Category

Primary antibody

Applications

WB, ELISA

Cross-Reactivity

Human

CloneNo number

ARC51789

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. In addition, this protein contains an antimicrobial peptide that displays antibacterial, antifungal, and anti-MRSA activity against *E. coli*, *E. faecalis*, *S. aureus*, *S. aureus* MRSA LPV+, *S. agalactiae*, and yeast *C. krusei*. Mutations in this gene have been implicated as causes of familial amyotrophic lateral sclerosis. Rare transcript variants have been reported for this gene.

Recommended Dilutions

WB 1:10000 - 1:60000**ELISA** Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements.

Immunogen Information

Gene ID

6647

Swiss Prot

P00441

Immunogen

Recombinant protein (or fragment). This information is considered to be commercially sensitive.

Synonyms

ALS; SOD; ALS1; IPOA; STAHP; hSod1; HEL-S-44; homodimer; SOD1

Contact

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Product Information

Source

Rabbit

Isotype

IgG

Purification

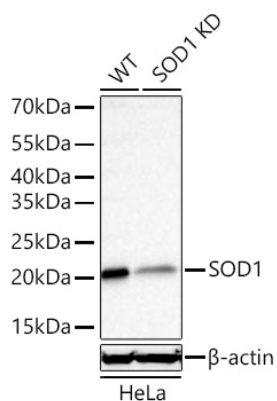
Affinity purification

Storage

Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS containing 50% glycerol and 0.05% BSA, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

Validation Data



Western blot analysis of lysates from wild type (WT) and SOD1 knockdown (KD) HeLa cells using SOD1 Rabbit mAb (A12537) at 1:11000 dilution incubated overnight at 4°C.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 10s.