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# Anti-SOD1 / Cu-Zn SOD Antibody

Rabbit Anti Polyclonal Antibody
Catalog # ALS17820

## Product Information

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|---|---|
| **Application** | WB, IHC-P, E, IP |
| **Primary Accession** | P00441 |
| **Predicted** | Human, Mouse, Rat, Rabbit, Hamster, Monkey, Pig, Sheep, Xenopus, Bovine, Dog |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Calculated MW** | 15936 |
| **Concentration (mg/ml)** | 1 mg/ml |

## Additional Information

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| **Gene ID** | 6647 |
| **Alias Symbol** | SOD1 |
| **Other Names** | SOD1, ALS, ALS1, Cu/Zn superoxide dismutase, HSod1, Homodimer, IPOA, SOD, soluble, SOD, Superoxide dismutase [Cu-Zn], Superoxide dismutase 1, Indophenoloxidase A, Superoxide dismutase, cystolic |
| **Target/Specificity** | detects a 23 kDa proteinin human (and a 19 kDa protein in otherspecies) on SDS-PAGE immunoblots,corresponding to the molecular mass ofCu/Zn SOD. Positive control: HeLa cell lysate. |
| **Reconstitution & Storage** | Affinity purified |
| **Precautions** | Anti-SOD1 / Cu-Zn SOD Antibody is for research use only and not for use in diagnostic or therapeutic procedures. |

## Protein Information

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| **Name** | SOD1 ( HGNC:11179) |
| **Function** | Destroys radicals which are normally produced within the cells and which are toxic to biological systems (PubMed:18948262, PubMed:24140062). Catalyzes the oxidation of hydrogen sulfide (H2S) to sulfate, playing an important role in detoxifying H2S and limiting the accumulation of reactive sulfur species (RSS) such as persulfides and polysulfides (PubMed:36630448). |
| **Cellular Location** | Cytoplasm. Nucleus. Note=Predominantly cytoplasmic; the pathogenic variants ALS1 Arg-86 and Ala-94 gradually aggregates and accumulates in mitochondria. |

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.