

## SOD2 protein

CatalogNo: YD0095

### | Key Features

#### Reactivity

- Human

#### Applications

- WB, SDS-PAGE

### | Recommended Dilution Ratios

### | Storage

**Storage\*** -20°C/6 month, -80°C for long storage

**Formulation** Liquid in PBS

### | Basic Information

**Purity** SDS-PAGE >90%

### | Immunogen Information

**Sequence** Amino acid: 8-78, with his-MBP tag.

### | Target Information

**Gene name** SOD2

**Protein Name** SOD2 protein

Organism	Gene ID	UniProt ID
Human	<a href="#">6648;</a>	<a href="#">P04179;</a>
Mouse		<a href="#">P09671;</a>

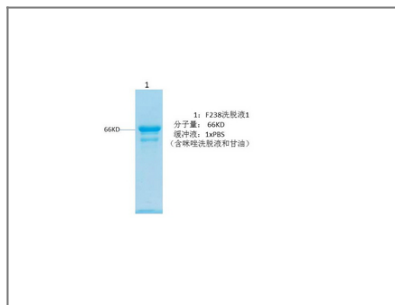
**Cellular  
Localization**

Mitochondrion matrix.

**Function**

response to reactive oxygen species, response to superoxide, response to oxygen radical, age-dependent response to oxidative stress, age-dependent response to reactive oxygen species, response to hypoxia, release of cytochrome c from mitochondria, liver development, neurological system process involved in regulation of systemic arterial blood pressure, immune system development, circulatory system process, vascular process in circulatory system, detection of oxygen, regulation of systemic arterial blood pressure mediated by a chemical signal, regulation of systemic arterial blood pressure by acetylcholine, vasodilation by acetylcholine involved in regulation of systemic arterial blood pressure, regulation of systemic arterial blood pressure by neurotransmitter, regulation of systemic arterial blood pressure, negative regulation of systemic arterial blood pressure, generation of precursor metabolites and energy, DNA metabolic process, DNA repair, double-strand break repair, regulation of transcription, DNA-dependent, regulation of transcription from RNA polymerase II promoter, protein complex assembly, peptide metabolic process, cellular amino acid derivative metabolic process, coenzyme metabolic process, glutathione metabolic process, sulfur metabolic process, oxygen and reactive oxygen species metabolic process, superoxide metabolic process, cellular ion homeostasis, apoptosis, anti-apoptosis, response to DNA damage stimulus, response to oxidative stress, mitochondrion organization, heart development, aging, age-dependent general metabolic decline, behavior, locomotory behavior, blood circulation, regulation of blood pressure, cell death, negative regulation of cell proliferation, apoptotic mitochondrial changes, response to radiation, detection of chemical stimulus, response to wounding, response to abiotic stimulus, post-embryonic development, positive regulation of biosynthetic process, response to extracellular stimulus, response to inorganic substance, senescence, response to ionizing radiation, organ senescence, response to gamma radiation, regulation of cell death, programmed cell death, response to activity, energy derivation by oxidation of organic compounds, death, removal of superoxide radicals, cellular homeostasis, electron transport chain, respiratory electron transport chain, hemopoiesis, neuron differentiation, positive regulation of cellular biosynthetic process, response to nutrient levels, oxygen homeostasis, gas homeostasis, cellular response to stress, cellular response to oxidative stress, cellular response to reactive oxygen species, regulation of tube size, regulation of cell proliferation, vasodilation, regulation of membrane potential, response to drug, response to hydrogen peroxide, superoxide anion generation, homeostatic process, hydrogen peroxide metabolic process, regulation of apoptosis, negative regulation of apoptosis, regulation of programmed cell death, negative regulation of programmed cell death, pigmentation, regulation of neuron apoptosis, negative regulation of neuron apoptosis, macromolecular complex subunit organization, cellular respiration, regulation of nitric oxide biosynthetic process, positive regulation of nitric oxide biosynthetic process, regulation of transcription, negative regulation of cell differentiation, regulation of fat cell differentiation, negative regulation of fat cell differentiation, negative regulation of blood pressure, pigmentation during development, regulation of fibroblast proliferation, negative regulation of fibroblast proliferation, hemopoietic or lymphoid organ development, neuron development, response to axon injury, erythrophore differentiation, chemical homeostasis, hydrogen peroxide biosynthetic process, ion homeostasis, neurological system process, regulation of blood vessel size, pigment cell differentiation, positive regulation of nitrogen compound metabolic process, cofactor metabolic process, regulation of RNA metabolic process, protein oligomerization, protein homooligomerization, protein tetramerization, protein homotetramerization, detection of stimulus, regulation of mitochondrial membrane potential, di-, tri-valent inorganic cation homeostasis, iron ion homeostasis, cation homeostasis, cellular chemical homeostasis, response to hyperoxia, oxidation reduction, negative regulation of cell death, macromolecular complex assembly, protein complex biogenesis, response to oxygen levels,

## Validation Data



## Contact information

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**SOD2 protein**

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