

# SOD-1 Polyclonal Antibody

<b>CATALOG #:</b>	3458-100
<b>AMOUNT:</b>	100 µg
<b>LOT #:</b>	_____
<b>HOST:</b>	Rabbit
<b>IMMUNOGEN:</b>	Synthetic peptide surrounding amino acid 131 of human SOD (Internal ID# BV-926)
<b>SPECIES REACTIVITY:</b>	human, mouse, rat, horse, guinea pig

**FORMULATION:**

100 µg (0.2 mg/ml) affinity purified rabbit polyclonal antibody in phosphate-buffered saline (PBS) containing 30% glycerol, 0.5% BSA, and 0.01% thimerosal.

**STORAGE CONDITIONS:**

Store at -20°C. For long term storage, aliquot and freeze at -70°C. Avoid repeated freeze/thaw cycles.

**BACKGROUND:**

SOD (Superoxide Dismutase) is a well characterized cytosolic scavenger of oxygen free radicals that requires copper and zinc binding to potentiate its enzymatic activity. Enzymatically, SOD-1 facilitates the dismutation of oxygen radicals to hydrogen peroxide, and it also catalyzes prooxidant reactions, which include the peroxidase activity and hydroxyl radical generating activity. Defects in the gene encoding SOD-1 have been implicated in the progression of neurological diseases.

**SPECIFICITY:**

The antibody recognizes SOD-1 of human, mouse, rat, horse, guinea pig origins. Reactivity to other species has not been tested. Blocking peptide (Cat.# 3458BP-50) is available separately.

**APPLICATION:**

The antibody can be used in Western blotting (0.5-4 µg/ml). Per researcher's feedback, it also works well in immunoprecipitation (20 µg/ml) and immunohistochemistry (20 µg/ml, frozen & paraffin). However, the optimal concentrations should be determined individually.



**Cat. #: 3458-100**  
Western blot analysis of SOD expression with Jurkat cell lysates (Lane 1, 2).

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- Mitochondrial Apoptosis Kits & Reagents
- Nuclear Apoptosis Kits & Reagents
- Apoptosis Inducers and Set
- Apoptosis siRNA Vectors

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- Membrane Protein Extraction Kit
- Cytosol/Particulate Rapid Separation Kit
- Mammalian Cell Extraction Kit
- FractionPREP Fractionation System

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- Pfu and Taq DNA Polymerases

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