

## SOD1 polyclonal antibody

Catalog: BS6057

Host: Rabbit

Reactivity: Human, Mouse, Rat

### BackGround:

Superoxide dismutase (SOD) is an antioxidant enzyme involved in the defense system against reactive oxygen species (ROS). SOD catalyzes the dismutation reaction of superoxide radical anion (O<sub>2</sub><sup>-</sup>) to hydrogen peroxide, which is then catalyzed to innocuous O<sub>2</sub> and H<sub>2</sub>O by glutathione peroxidase and catalase. Several classes of SOD have been identified. These include intracellular copper, zinc SOD (Cu, Zn SOD/SOD1), mitochondrial manganese SOD (Mn SOD/SOD2) and extracellular Cu, Zn SOD (EC SOD/SOD3). SOD1 is found in all eukaryotic species as a homodimeric 32 kDa enzyme containing one each of Cu and Zn ion per subunit. The manganese containing 80 kDa tetrameric enzyme SOD2 is located in the mitochondrial matrix in close proximity to a primary endogenous source of superoxide, the mitochondrial respiratory chain.

### Product:

Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2

### Molecular Weight:

~ 17 kDa

### Swiss-Prot:

P00441

### Purification&Purity:

The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

### Applications:

WB 1:500 - 1:2000

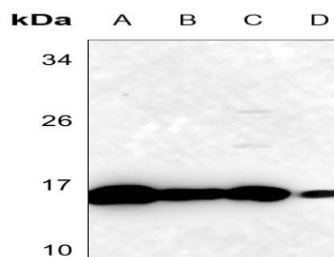
### Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

### Specificity:

SOD1 polyclonal antibody detects endogenous levels of SOD1 protein.

### DATA:



Western blot (WB) analysis of DICER1 pAb at 1:500 dilution

LaneA:The Liver tissue lysate of Mouse(40ug)

LaneB:The Testis tissue lysate of Mouse(40ug)

LaneC:The Liver tissue lysate of Rat(40ug)

LaneD:The Testis tissue lysate of Rat(40ug)

### Note:

For research use only, not for use in diagnostic procedure.

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