

## SOD2 monoclonal antibody

Catalog: MB66703

Host: Mouse

Reactivity: Human

### BackGround:

Manganese superoxide dismutase (MnSOD or SOD2) is a mitochondrial detoxification enzyme that catalyzes the conversion of superoxide to hydrogen peroxide. Hydrogen peroxide is then decomposed to water by catalase, glutathione peroxidase, or peroxiredoxins. MnSOD/SOD2 and other enzymes involved in antioxidant defense protect cells from reactive oxygen species (ROS). Calorie restriction leads to SIRT3-mediated deacetylation of MnSOD/SOD2 and the subsequent increase of its antioxidant activity. MnSOD/SOD2 also plays an essential role in mediating the protective effect of mTOR inhibition to reduce epithelial stem cell senescence.

### Product:

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide, pH 7.3.

### Molecular Weight:

~ 22 kDa

### Swiss-Prot:

P04179

### Purification&Purity:

The antibody was purified by immunogen affinity chro-

matography.

### Applications:

WB (1/500 - 1/1000)

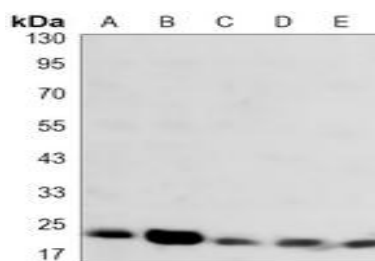
### Storage&Stability:

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

### Specificity:

Recognizes endogenous levels of SOD2 protein.

### DATA:



Western blot analysis of SOD2 expression in Hela (A), THP1 (B), A549 (C), K562 (D), Ramos (E) whole cell lysates.

### Note:

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

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