

## Anti-SOD2 Antibody (8Z611)

### Product Details

Ig Type:	Rabbit IgG
Reactivity:	Human
Conjugation:	Unconjugated
Clone:	8Z611
Purification:	Protein A

### Applications

1. SOD2 was immunoprecipitated using:
    - Lane A:0.5 mg HeLa Whole Cell Lysate.
    - Lane B:0.5 mg HepG2 Whole Cell Lysate.
    - 2  $\mu$ L anti-SOD2 rabbit monoclonal antibody and 15  $\mu$ L of 50 % Protein G agarose.
    - Primary antibody:
      - Anti-SOD2 rabbit monoclonal antibody, at 1:100 dilution.
    - Secondary antibody:
      - Dylight 800-labeled antibody to rabbit IgG (H+L), at 1:5000 dilution.
    - Developed using the odyssey technique.
    - Performed under reducing conditions.
    - Predicted band size: 16 kDa.
    - Observed band size: 18 kDa.
  2. Anti-SOD2 rabbit monoclonal antibody at 1:10000 dilution.
    - Lane A: HeLa Whole Cell lysate.
    - Lysates/proteins at 30  $\mu$ g per lane.
- Verified Activity:
- Secondary
    - Goat Anti-Rabbit IgG H&L (Dylight800) at 1/10000 dilution.
    - Developed using the Odyssey technique.
    - Performed under reducing conditions.
    - Predicted band size:25 kDa.
    - Observed band size:25 kDa.
  - 3. Anti-SOD2 rabbit monoclonal antibody at 1:500 dilution.
    - Lane A: HeLa Whole Cell Lysate.
    - Lane B: SOD2 konckout HeLa Whole Cell lysate.
    - Lysates/proteins at 30  $\mu$ g per lane.
    - Secondary
      - Goat Anti-Rabbit IgG (H+L)/HRP at 1/10000 dilution.
    - Developed using the ECL technique.
    - Performed under reducing conditions.
    - Predicted band size:24 kDa.
    - Observed band size:24 kDa(Validation Experiment)

## A DRUG SCREENING EXPERT

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Application: ELISA,IP,WB

Recommended WB: 1:2000-1:10000; ELISA: 1:5000-1:10000; IP: 1-4 µL/mg of lysate

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### Properties

Stability & Storage: Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles. Preservative-Free.

Shipping: Shipping with blue ice.

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### Antigen Details

Immunogen: Recombinant Protein: Human SOD2 protein (TMPY-02044)

Antigen Species: Human

Synonyms: superoxide dismutase 2, mitochondrial;MNSOD;IPOB;MVCD6

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### Research Background

Superoxide dismutases (SOD) are important anti-oxidant enzymes that guard against superoxide toxicity. In humans, as in all mammals and most chordates, three forms of superoxide dismutase (SOD) are present: SOD1 is located in the cytoplasm, SOD2 in the mitochondria, and SOD3 is extracellular. Mitochondrial superoxide dismutase [SOD; manganese SOD (MnSOD) or SOD2] neutralizes highly reactive superoxide radical ( $O_2^{\bullet-}$ ), the first member in the plethora of mitochondrial reactive oxygen species.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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