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## **SOD1 (6F5) Antibody**

**Subcategory:** Mouse Monoclonal Antibody

**Cat. No.:** 252889

**Unit:** 0.1 ml

**Description:**

SOD1 (Superoxide dismutase 1) destroys free radicals which are normally produced within the cells and which are toxic to biological systems. SOD1 catalyzes the following reaction:  $2 \text{ superoxide} + 2 \text{ H}^+ = \text{O}_2 + \text{H}_2\text{O}_2$ . Defects in SOD1 are the cause of amyotrophic lateral sclerosis type 1 (ALS1). ALS1 is a familial form of amyotrophic lateral sclerosis, a neurodegenerative disorder affecting upper and lower motor neurons and resulting in fatal paralysis. Sensory abnormalities are absent. Death usually occurs within 2 to 5 years. The etiology of amyotrophic lateral sclerosis is likely to be multifactorial, involving both genetic and environmental factors. The disease is inherited in 5-10% of cases leading to familial forms.

**Isotype:** Mouse IgG1

**Applications:** WB, IF, FC

**Species Reactivity:** H, M

**Format:** Each vial contains 0.1 ml ascitic fluid with 0.03% sodium azide.

**Alternate Names:** Superoxide dismutase [Cu-Zn]; SOD1; Superoxide dismutase-1

**Accession No.:** P00441

**Antigen:** Purified recombinant fragment of human SOD1 expressed in *E. coli*.

**Application Notes:** WB: 1:500-1:2000; IF: 1:200-1:1000; FC: 1:200-1:400;

**Storage:** Store at 4°C for short term use only. Store at -20°C for storage over 1 month. Product is guaranteed 6 months from the date of shipment.

For research use only, not for diagnostic or therapeutic procedures.