

SOD-1 Polyclonal Antibody

Catalog No: YT4364

Reactivity: Human; Mouse; Rat

Applications: WB;ELISA

Target: SOD-1

Fields: >>Peroxisome;>>Longevity regulating pathway - multiple species;>>Parkinson

disease;>>Amyotrophic lateral sclerosis;>>Huntington disease;>>Prion disease;>>Pathways of neurodegeneration - multiple diseases;>>Chemical

carcinogenesis - reactive oxygen species

Gene Name: SOD1

Protein Name: Superoxide dismutase [Cu-Zn]

P00441

P08228

Human Gene Id: 6647

Human Swiss Prot

No:

Mouse Gene Id: 20655

Mouse Swiss Prot

No:

Rat Gene ld: 24786

Rat Swiss Prot No: P07632

Immunogen: The antiserum was produced against synthesized peptide derived from human

SOD-1. AA range:36-85

Specificity: SOD-1 Polyclonal Antibody detects endogenous levels of SOD-1 protein.

Formulation : Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Source: Polyclonal, Rabbit, IgG

1/3

No4:

1

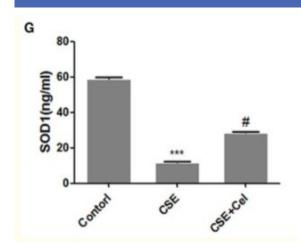
Best Tools for immunology Research WB 1:500 - 1:2000. ELISA: 1:10000. Not yet tested in other applications. **Dilution: Purification:** The antibody was affinity-purified from rabbit antiserum by affinitychromatography using epitope-specific immunogen. Concentration: 1 mg/ml -15°C to -25°C/1 year(Do not lower than -25°C) **Storage Stability: Observed Band:** 18kD Amyotrophic lateral sclerosis (ALS); Huntington's disease; Prion diseases; **Cell Pathway: Background:** The protein encoded by this gene binds copper and zinc ions and is one of two isozymes responsible for destroying free superoxide radicals in the body. The encoded isozyme is a soluble cytoplasmic protein, acting as a homodimer to convert naturally-occurring but harmful superoxide radicals to molecular oxygen and hydrogen peroxide. The other isozyme is a mitochondrial protein. Mutations in this gene have been implicated as causes of familial amyotrophic lateral sclerosis. Rare transcript variants have been reported for this gene. [provided by RefSeg, Jul 2008], **Function:** catalytic activity:2 superoxide + 2 H(+) = O(2) + H(2)O(2).,cofactor:Binds 1 copper ion per subunit.,cofactor:Binds 1 zinc ion per subunit.,disease:Defects in SOD1 are the cause of amyotrophic lateral sclerosis type 1 (ALS1) [MIM:105400]. 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., function: Destroys radicals which are normally produced within the cells and which are toxic to biological systems., miscellaneous: The protein (both wild-type and ALS1 variants) has a tendency to form fibrillar aggregates in the Subcellular Cytoplasm . Mitochondrion . Nucleus . Predominantly cytoplasmic; the pathogenic variants ALS1 Arg-86 and Ala-94 gradually aggregates and Location: accumulates in mitochondria. . Colon, Fetal brain cortex, Placenta, **Expression:** orthogonal,hot Tag: Sort: 1



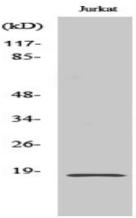
Host: Rabbit

Modifications: Unmodified

Products Images



Chen, Qiong, et al. "Celastrol Alleviates Chronic Obstructive Pulmonary Disease by Inhibiting Cellular Inflammation Induced by Cigarette Smoke via the Ednrb/Kng1 Signaling Pathway." Frontiers in pharmacology 9 (2018): 1276.



Western Blot analysis of various cells using SOD-1 Polyclonal Antibody diluted at 1:1000



Western blot analysis of lysate from Jurkat cells, using SOD-1 antibody.