

Cu/Zn SOD, pAb

Catalog #: ADI-SOD-100

Product Number/Sizes

ADI-SOD-100-J 1 mg
ADI-SOD-100-F 200 µg
ADI-SOD-100-D 50 µg

Product Specifications

ALTERNATIVE NAME:

Superoxide Dismutase, SOD1

HOST:

Rabbit

IMMUNOGEN:

Native human Cu/Zn SOD.

APPLICATION:

Immunofluorescence

Immunohistochemistry (paraffin sections)

Immunoprecipitation

Western Blot (1:1000, ECL)

Optimal conditions must be determined individually for each application.

SPECIFICITY:

Recognizes human, mouse, rat, and clam Cu/Zn SOD. Detects a band of ~23kDa (human) or ~19kDa (mouse and rat) by Western blot.

PURITY DETAIL:

Protein A affinity purified.

FORMULATION:

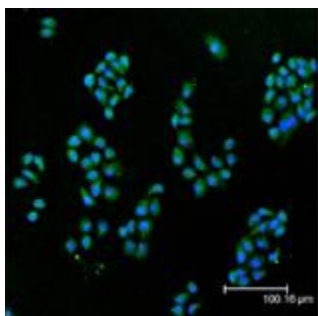
Liquid. In PBS containing 50% glycerol and 0.09% sodium azide.

LONG TERM STORAGE:

-20°C

MISCELLANEOUS/GENERAL:

SOD (Superoxide dismutase) is responsible for the elimination of cytotoxic active oxygen by catalyzing the dismutation of the superoxide radical to oxygen and hydrogen peroxide. There are three SOD isoenzymes in mammalian cells, they are: EC SOD (extracellular SOD), Cu/Zn SOD (copper and zinc-containing SOD) and Mn SOD (manganese-containing SOD).



Immunofluorescent analysis (confocal) staining of HeLa cells using Cu/Zn SOD pAb (green); nuclei are stained in blue pseudocolor using DRAQ5.



Immunohistochemistry analysis of human heart tissue stained with Cu/Zn SOD, pAb at 10 µg/ml.



Western blot analysis of Cu/Zn SOD, pAb (Prod. No. ADI-SOD-100): Lane 1: Rat liver tissue lysate, Lane 2: Mouse liver tissue lysate, Lane 3: HeLa cell lysate (Prod. No. ADI-LYC-HL100).

Product Literature References

A novel mouse model with impaired dynein/dynactin function develops amyotrophic lateral sclerosis (ALS)-like features in motor neurons and improves lifespan in SOD1-ALS mice D. Jaarsma, et al. Hum. Mol. Genet. **17** 2849 (2008)

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Aging induces muscle-specific impairment of endothelium-dependent dilation in skeletal muscle feed arteries M.H. Laughlin, et al. J. Appl. Physiol. **93** 1685 (2002)

Dorfin ubiquitylates mutant SOD1 and prevents mutant SOD1-mediated neurotoxicity G. Sobue, et al. J. Biol. Chem. **277** 36793 (2002)

Effect of mutant alpha-synuclein on dopamine homeostasis in a new human mesencephalic cell line P. Brundin, et al. J. Biol. Chem. **277** 38884 (2002)

Mutant Cu/Zn-superoxide dismutase proteins have altered solubility and interact with heat shock/stress proteins in models of amyotrophic lateral sclerosis H.D. Durham, et al. J. Biol. Chem. **276** 12791 (2001)

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