

SOD1 Antibody

*Superoxide Dismutase-1, Mouse Anti Human
ABM0632*

Product Overview

Name SOD1 Antibody

Description

Superoxide Dismutase-1, Mouse Anti Human

Synonyms

Superoxide dismutase [Cu-Zn], EC 1.15.1.1, SOD1, SOD, ALS, ALS1, IPOA.

Introduction

Human Cu/Zn Superoxide Dismutase (SOD1) catalyzes the reaction between superoxide anions and hydrogen to yield molecular oxygen and hydrogen peroxide. The enzyme protects the cell against dangerous levels of superoxide.

SOD1 binds copper and zinc ions and is 1 of 3 isozymes accountable for destroying free superoxide radicals in the body. The encoded protein neutralizes supercharged oxygen molecules, which can damage cells if their levels are not controlled. Mutations in SOD1 cause a form of familial amyotrophic lateral sclerosis.

Source

Escherichia Coli.

Physical Appearance

Sterile Filtered colorless solution.

Formulation

SOD1 filtered solution (1mg/ml) contains 20mM Tris-HCl pH-7.5 and 10% glycerol.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Purity

Greater than 95.0% as determined by SDS-PAGE.

Amino acid sequence

MATKAVCVLK GDGPVQGIIN FEQKESNGPV KVWGSIKGLT EGLHGFHVHE FGDNTAGCTS AGPHFNPLSR
KHGGPKDEER HVGDLGNVTA DKDGVADVSI EDSVISLSGD HCIIGRTLTVV HEKADDLGKG GNEESTKTGN
AGSRLACGVIGIAQ.

Biological Activity

Specific activity is > 500 units/mg, in which one unit will inhibit the rate of reduction of cytochrome c by 50% in a

coupled system, using xanthine and Xanthine oxidase at pH 7.8 at 25°C.

Precautions

SOD1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.