Datasheet for ABIN5608322

SOD1 Protein (partial) (His tag)

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Overview

Quantity:	100 µg
Target:	SOD1
Protein Characteristics:	partial
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This SOD1 protein is labelled with His tag.
Application:	Western Blotting (WB)

Product Details

Sequence:	Ala 2 - Gln 154
Purity:	>97 % as determined by SDS-PAGE.
Endotoxin Level:	Endotoxin level is less than 1.0 EU per ug by the LAL method.

Target Details

Target:	SOD1
Alternative Name:	SOD1 (SOD1 Products)
Background:	Superoxide dismutase [Cu-Zn] (SOD1) is also known as superoxide dismutase 1 (hSod1), an enzyme that in humans is encoded by the SOD1 gene, located on chromosome 21. SOD1 can bind copper and zinc ions and is one of three superoxide dismutases responsible for destroying free superoxide radicals in the body. The encoded isozyme (SOD1) is a soluble cytoplasmic and

Target Details

	mitochondrial intermembrane space protein, acting as a homodimer to convert naturally occurring, but harmful, superoxide radicals to molecular oxygen and hydrogen peroxide. Furthermore, the mutations of SOD1 gene can result in a neurodegenerative disorder affecting upper motor neurons in the brain and lower motor neurons in the brain stem and spinal cord.
Molecular Weight:	16.8 kDa
Gene ID:	6647
UniProt:	P00441
Pathways:	Sensory Perception of Sound, Transition Metal Ion Homeostasis

Application Details

Application Notes:	This recombinant protein can be used for WB.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Buffer:	50 mM Tris, 150 mM NaCl, pH 7.5
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-20 °C,-80 °C
Storage Comment:	Lyophilized Protein should be stored at -20°C or lower for long term storage. Upon reconstitution, working aliquots should be stored at -20°C or -70°C.