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SOD2 Protein (partial) (His tag)



Image



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Overview

Quantity:	100 μg
Target:	SOD2
Protein Characteristics:	partial
Origin:	Rat
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This SOD2 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Specificity:	~25 kDa
Purification:	Affinity Purified
Purity:	>90%

Target Details

Target:	SOD2
Alternative Name:	Mn SOD (SOD2 Products)
Background:	Superoxide dismutase (SOD) is an endogenously produced intracellular enzyme present in almost every cell in the body (3). It works by catalyzing the dismutation of the superoxide
	radical O2 ⁻ to O2 and H2O2, which are then metabolized to H2O and O2 by catalase and
	glutathione peroxidase (2, 5). In general, SODs play a major role in antioxidant defense

mechanisms (4). There are two main types of SOD in mammalian cells. One form (SOD1) contains Cu and Zn ions as a homodimer and exists in the cytoplasm. The two subunits of 16 kDa each are linked by two cysteines forming an intra-subunit disulphide bridge (3). The second form (SOD2) is a manganese containing enzyme and resides in the mitochondrial matrix. It is a homotetramer of 80 kDa. The third form (SOD3 or EC-SOD) is like SOD1 in that it contains Cu and Zn ions, however it is distinct in that it is a homotetramer, with a mass of 30 kDA and it exists only in the extracellular space(8). SOD3 can also be distinguished by its heparin-binding capacity (1).

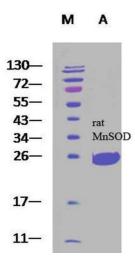
Molecular Weight:	approx. 25 kDa
Gene ID:	24787
UniProt:	P07895
Pathways:	Sensory Perception of Sound, Transition Metal Ion Homeostasis, Negative Regulation of intrinsic apoptotic Signaling

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Comment:	This product has been certified >90% pure using SDS-PAGE analysis.
Restrictions:	For Research Use only

Handling

Concentration:	Lot specific
Buffer:	50 mM Tris/HCl pH 7.7, 0.3M NaCl
Storage:	-20 °C



SDS-PAGE

Image 1. SDS-PAGE of 25 kDa rat Mn SOD (ABIN1686708, ABIN1686709 and ABIN1686710).