

Product Datasheet

SOD1 (Cu/Zn) Antibody (HRP) (orb151430)

Catalog Number	orb151430
Category	Antibodies
Description	Rabbit polyclonal to SOD (HRP). Superoxide dismutase (SOD) is an endogenously produced intracellular enzyme present in almost every cell in the body. It works by catalyzing the dismutation of the superoxide radical O_2^- to O_2 and H_2O_2, which are then metabolized to H_2O and O_2 by catalase and glutathione peroxidase (2,5). In general, SODs play a major role in antioxidant defense mechanisms. 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. 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(9). SOD3 can also be distinguished by its heparin-binding capacity..
Target	SOD1 (Cu/Zn)
Clonality	Polyclonal
Species/Host	Rabbit
Conjugation	HRP
Reactivity	Bovine, Canine, Fish, Frog, Hamster, Human, Invertebrate, Monkey, Mouse, Mussel, Other, Porcine, Rabbit, Rat, Sheep
Concentration	1 mg/ml
Buffer/Preservatives	73.64mM Carbonate, 54.55mM Ethanolamine, 45.45mM Cyanoborohydride, 18.18mM Sodium Hydroxide, 0.23mM Citrate

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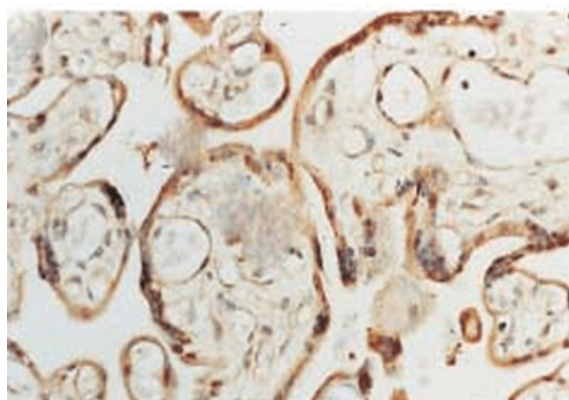
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Purification	Protein A Purified
Immunogen	Synthetic Human Cu/Zn SOD Peptide
UniProt ID	P00441
MW	19kDa
Tested applications	ELISA, IHC, IP, WB
Dilution range	WB (1:5000), IHC (1:100)
Application notes	0.2 µg/ml of SPC-116 was sufficient for detection of Cu/Zn SOD in 20 µg of HeLa cell lysate by colorimetric immunoblot analysis using Goat anti-rabbit IgG:AP as the secondary antibody.
Specificity	Detects ~23kDa (human) and ~19kDa (other species).
Storage	Conjugated antibodies should be stored according to the product label
Note	For research use only
Entrez	6647
NCBI	NP_000445.1



Immunohistochemistry analysis using Rabbit Anti-SOD1 Polyclonal Antibody. Tissue: Placenta. Species: Human. Primary Antibody: Rabbit Anti-SOD1 Polyclonal Antibody at 1:100.

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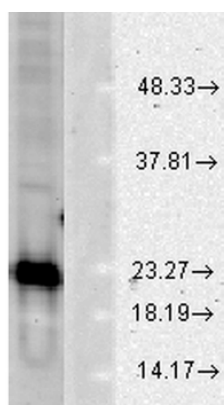
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Western blot analysis of Human Cell line lysates showing detection of SOD1 protein using Rabbit Anti-SOD1 Polyclonal Antibody. Load: 15 µgprotein. Block: 1.5% BSA. Primary Antibody: Rabbit Anti-SOD1 Polyclonal Antibody at 1:1000 for 2 hours at RT. Secondary Antibody: Donkey Anti-Rabbit IgG: HRP for 1 hour at RT.

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