

**SOD1, Biotinylated**  
**Peptide-affinity purified goat antibody**  
**Catalog # AF2022b****Specification**

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**SOD1, Biotinylated - Product Information**

Application	<b>WB, Pep-ELISA</b>
Primary Accession	<a href="#">P00441</a>
Other Accession	<a href="#">NP_000445</a> , <a href="#">6647</a> , <a href="#">20655 (mouse)</a> , <a href="#">24786 (rat)</a>
Reactivity	<b>Human, Mouse, Rat</b>
Predicted	<b>Dog</b>
Host	<b>Goat</b>
Clonality	<b>Polyclonal</b>
Concentration	<b>100ug/200ul</b>
Isotype	<b>IgG</b>
Calculated MW	<b>15936</b>

**SOD1, Biotinylated - Additional Information****Gene ID** 6647**Other Names**

Superoxide dismutase [Cu-Zn], 1.15.1.1, Superoxide dismutase 1, hSod1, SOD1

**Dilution**

WB~~1:1000

Pep-ELISA~~N/A

**Format**

0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

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

**SOD1, Biotinylated - Protein Information****Name** SOD1 ([HGNC:11179](#))**Function**

Destroys radicals which are normally produced within the cells and which are toxic to biological systems.

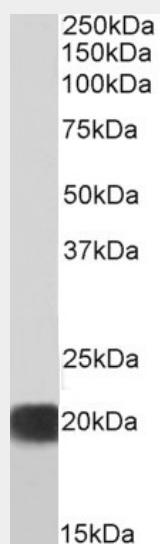
**Cellular Location**

Cytoplasm. Nucleus. Note=Predominantly cytoplasmic; the pathogenic variants ALS1 Arg-86 and Ala-94 gradually aggregates and accumulates in mitochondria.

**SOD1, Biotinylated - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**SOD1, Biotinylated - Images**

Biotinylated EB07208 (0.3µg/ml) staining of HEK293 lysate (35µg protein in RIPA buffer), exactly mirroring its parental non-biotinylated product. Primary incubation was 1 hour. Detected by chemiluminescence, using streptavidin-HRP and using NAP blocker as

**SOD1, Biotinylated - Background**

The protein encoded by this gene binds copper and zinc ions and is one of two isozymes responsible for destroying free superoxide radicals in the body. The encoded isozyme is a soluble cytoplasmic protein, acting as a homodimer to convert naturally-occurring but harmful superoxide radicals to molecular oxygen and hydrogen peroxide. The other isozyme is a mitochondrial protein. Mutations in this gene have been implicated as causes of familial amyotrophic lateral sclerosis. Rare transcript variants have been reported for this gene.

**SOD1, Biotinylated - References**

Chromosome 9p21 in amyotrophic lateral sclerosis in Finland: a genome-wide association study. Laaksovirta H, et al. Lancet Neurol, 2010 Oct. PMID 20801718.  
Knock-down of superoxide dismutase 1 sensitizes cisplatin-resistant human ovarian cancer cells.

Kim JW, et al. Anticancer Res, 2010 Jul. PMID 20682985.

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Variation at the NFATC2 Locus Increases the Risk of Thiazolinedione-Induced Edema in the Diabetes REduction Assessment with ramipril and rosiglitazone Medication (DREAM) Study. Bailey SD, et al. Diabetes Care, 2010 Jul 13. PMID 20628086.

Mutant superoxide dismutase 1-induced IL-1beta accelerates ALS pathogenesis. Meissner F, et al. Proc Natl Acad Sci U S A, 2010 Jul 20. PMID 20616033.