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SOD1 Antibody (Center) Blocking Peptide

Synthetic peptide
Catalog # BP8733c

Specification

SOD1 Antibody (Center) Blocking Peptide - Product Information

Primary Accession P00441

SOD1 Antibody (Center) Blocking Peptide - Additional Information

Gene ID 6647

Other Names
Superoxide dismutase [Cu-Zn], Superoxide dismutase 1, hSod1, SOD1

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP8733c was selected from the Center region of human SOD1. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

SOD1 Antibody (Center) Blocking Peptide - 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 Antibody (Center) Blocking Peptide - Protocols

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

- Blocking Peptides

SOD1 Antibody (Center) Blocking Peptide - Images

SOD1 Antibody (Center) Blocking Peptide - Background

SOD1 binds copper and zinc ions and is one of two isozymes responsible for destroying free superoxide radicals in the body. This isozyme is a soluble cytoplasmic protein, acting as a homodimer to convert naturally-occuring but harmful superoxide radicals to molecular oxygen and hydrogen peroxide. The other isozyme is a mitochondrial protein.

SOD1 Antibody (Center) Blocking Peptide - References

Crapo,J.D., et.al., Proc. Natl. Acad. Sci. U.S.A. 89 (21), 10405-10409 (1992)