

MOSC1 Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP9754c**Specification**

MOSC1 Antibody (Center) Blocking Peptide - Product InformationPrimary Accession [Q5VT66](#)**MOSC1 Antibody (Center) Blocking Peptide - Additional Information****Gene ID** 64757**Other Names**

Mitochondrial amidoxime-reducing component 1, mARC1, 1---, Molybdenum cofactor sulfurase C-terminal domain-containing protein 1, MOSC domain-containing protein 1, Moco sulfurase C-terminal domain-containing protein 1, MARC1, MOSC1

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.

MOSC1 Antibody (Center) Blocking Peptide - Protein Information**Name** MTARC1 ([HGNC:26189](#))**Synonyms** MARC1, MOSC1**Function**

Catalyzes the reduction of N-oxygenated molecules, acting as a counterpart of cytochrome P450 and flavin-containing monooxygenases in metabolic cycles (PubMed: [19053771](http://www.uniprot.org/citations/19053771), PubMed: [21029045](http://www.uniprot.org/citations/21029045), PubMed: [30397129](http://www.uniprot.org/citations/30397129)). As a component of prodrug-converting system, reduces a multitude of N-hydroxylated prodrugs particularly amidoximes, leading to increased drug bioavailability (PubMed: [19053771](http://www.uniprot.org/citations/19053771)). May be involved in mitochondrial N(omega)-hydroxy-L-arginine (NOHA) reduction, regulating endogenous nitric oxide levels and biosynthesis (PubMed: [21029045](http://www.uniprot.org/citations/21029045)). Postulated to cleave the N-OH bond of N-hydroxylated substrates in concert with electron transfer from NADH to cytochrome b5 reductase then to cytochrome b5, the ultimate electron donor that primes the active site for substrate reduction (PubMed: [21029045](http://www.uniprot.org/citations/21029045)).

PubMed:19053771).

Cellular Location

Mitochondrion outer membrane; Single-pass type II membrane protein. Membrane; Lipid-anchor.

Note=Mitochondrial import is mediated by AA 1-40 and requires ATP

MOSC1 Antibody (Center) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

MOSC1 Antibody (Center) Blocking Peptide - Images**MOSC1 Antibody (Center) Blocking Peptide - References**

Gruenewald, S., et al. J. Med. Chem. 51(24):8173-8177(2008)Anantharaman, V., et al. FEMS Microbiol. Lett. 207(1):55-61(2002)