10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

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

Specification

MOSC1 Antibody (Center) Blocking Peptide - Product Information

Primary 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, PubMed:21029045, PubMed:30397129). As a component of prodrug-converting system, reduces a multitude of N-hydroxylated prodrugs particularly amidoximes, leading to increased drug bioavailability (PubMed:19053771). May be involved in mitochondrial N(omega)-hydroxy-L-arginine (NOHA) reduction, regulating endogenous nitric oxide levels and biosynthesis (PubMed: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,

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)