

MOSC2 Antibody (C-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP13573B**Specification**

MOSC2 Antibody (C-term) - Product Information

Application	WB,E
Primary Accession	O969Z3
Other Accession	O88994 , O9GKW0 , NP_060368.2
Reactivity	Mouse
Predicted	Monkey, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	38023
Antigen Region	304-333

MOSC2 Antibody (C-term) - Additional Information**Gene ID** 54996**Other Names**

Mitochondrial amidoxime reducing component 2, mARC2, 1---, Molybdenum cofactor sulfurase C-terminal domain-containing protein 2, MOSC domain-containing protein 2, Moco sulfurase C-terminal domain-containing protein 2, MARC2, MOSC2

Target/Specificity

This MOSC2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 304-333 amino acids from the C-terminal region of human MOSC2.

Dilution

WB~~1:1000

E~~Use at an assay dependent concentration.

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

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

Precautions

MOSC2 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

MOSC2 Antibody (C-term) - Protein Information

Name MTARC2 ([HGNC:26064](#))

Synonyms MARC2, MOSC2

Function Catalyzes the reduction of N-oxygenated molecules, acting as a counterpart of cytochrome P450 and flavin-containing monooxygenases in metabolic cycles (PubMed:[21029045](#), PubMed:[24423752](#)). As a component of prodrug-converting system, reduces a multitude of N-hydroxylated prodrugs particularly amidoximes, leading to increased drug bioavailability (PubMed:[21029045](#), PubMed:[24423752](#)). 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](#)).

Cellular Location

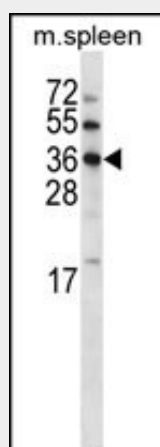
Mitochondrion outer membrane; Peripheral membrane protein. Peroxisome

MOSC2 Antibody (C-term) - 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](#)

MOSC2 Antibody (C-term) - Images



MOSC2 Antibody (C-term) (Cat. #AP13573b) western blot analysis in mouse spleen tissue lysates (35ug/lane). This demonstrates the MOSC2 antibody detected the MOSC2 protein (arrow).

MOSC2 Antibody (C-term) - Background

Catalytic component of the benzamidoxime prodrug-converting complex, a complex required to reduce N-hydroxylated structures, such as benzamidoxime prodrug. Benzamidoxime is an amidine

prodrug produced by N-hydroxylation which is used to enhance bioavailability and increase intestinal absorption. It is then reduced into benzamidine, its active amidine, by the benzamidoxime prodrug-converting complex.

MOSC2 Antibody (C-term) - References

Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) :
Aberg, K., et al. Biol. Psychiatry 67(3):279-282(2010)
Havemeyer, A., et al. J. Biol. Chem. 281(46):34796-34802(2006)
Anantharaman, V., et al. FEMS Microbiol. Lett. 207(1):55-61(2002)
Simpson, J.C., et al. EMBO Rep. 1(3):287-292(2000)