

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

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**MOSC2 Antibody (C-term) - Product Information**

|                   |                                                                               |
|-------------------|-------------------------------------------------------------------------------|
| Application       | WB,E                                                                          |
| Primary Accession | <a href="#">O969Z3</a>                                                        |
| Other Accession   | <a href="#">O88994</a> , <a href="#">O9GKW0</a> , <a href="#">NP_060368.2</a> |
| 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

**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](#)).

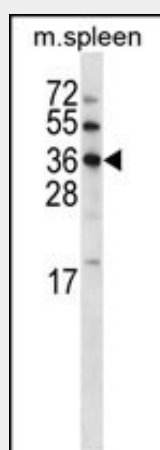
**Cellular Location**

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)