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MOSC2 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP13573B

Specification

MOSC2 Antibody (C-term) - Product Information

Application	**WB,E**
Primary Accession	Q969Z3
Other Accession	O88994, Q9GKW0, 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).

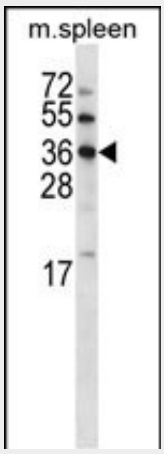
Cellular Location
Mitochondrion outer membrane; Peripheral membrane protein. Peroxisome

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 Cytomety
- 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) :
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