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MOCS1 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP19150a

Specification

MOCS1 Antibody (N-term) - Product Information

Application	**WB,E**
Primary Accession	Q9NZB8
Other Accession	NP_001068566.1
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**70105**
Antigen Region	**31-58**

MOCS1 Antibody (N-term) - Additional Information

Gene ID 4337

Other Names
Molybdenum cofactor biosynthesis protein 1, Cell migration-inducing gene 11 protein, Molybdenum cofactor synthesis-step 1 protein A-B, Cyclic pyranopterin monophosphate synthase, Molybdenum cofactor biosynthesis protein A, Cyclic pyranopterin monophosphate synthase accessory protein, Molybdenum cofactor biosynthesis protein C, MOCS1

Target/Specificity
This MOCS1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 31-58 amino acids from the N-terminal region of human MOCS1.

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
MOCS1 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

MOCS1 Antibody (N-term) - Protein Information

Name MOCS1

Function Isoform MOCS1A and isoform MOCS1B probably form a complex that catalyzes the conversion of 5'-GTP to cyclic pyranopterin monophosphate (cPMP). MOCS1A catalyzes the cyclization of GTP to (8S)- 3',8-cyclo-7,8-dihydroguanosine 5'-triphosphate and MOCS1B catalyzes the subsequent conversion of (8S)-3',8-cyclo-7,8-dihydroguanosine 5'- triphosphate to cPMP.

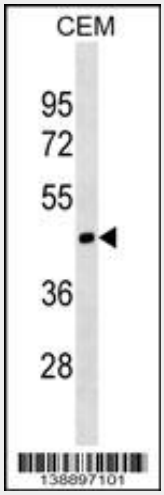
Tissue Location
Isoform MOCS1A and isoform 2 are widely expressed.

MOCS1 Antibody (N-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

MOCS1 Antibody (N-term) - Images



MOCS1 Antibody (N-term) (Cat. #AP19150a) western blot analysis in CEM cell line lysates (35ug/lane).This demonstrates the MOCS1 antibody detected the MOCS1 protein (arrow).

MOCS1 Antibody (N-term) - Background

Molybdenum cofactor biosynthesis is a conserved pathway leading to the biological activation of molybdenum. The protein encoded by this gene is involved in this pathway. This gene was originally thought to produce a bicistronic mRNA with the potential to produce two proteins (MOCS1A and MOCS1B) from adjacent open reading frames. However, only the first open reading frame (MOCS1A) has been found to encode a protein from the putative bicistronic mRNA, whereas additional splice variants, whose full-length natures have yet to be determined, are likely to produce a fusion between

the two open reading frames. This gene is defective in patients with molybdenum cofactor deficiency, type A. A related pseudogene has been identified on chromosome 16.

MOCS1 Antibody (N-term) - References

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Macaya, A., et al. Neuropediatrics 36(6):389-394(2005)
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