

## MOCS2 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)  
Catalog # AP16279a

### Specification

#### MOCS2 Antibody (N-term) - Product Information

|                   |                             |
|-------------------|-----------------------------|
| Application       | WB,E                        |
| Primary Accession | <a href="#">O96007</a>      |
| Other Accession   | <a href="#">NP_004522.1</a> |
| Reactivity        | Human                       |
| Host              | Rabbit                      |
| Clonality         | Polyclonal                  |
| Isotype           | Rabbit Ig                   |
| Calculated MW     | 20944                       |
| Antigen Region    | 14-43                       |

#### MOCS2 Antibody (N-term) - Additional Information

Gene ID 4338

#### Other Names

Molybdopterin synthase catalytic subunit  
{ECO:0000255|HAMAP-Rule:MF\_03052},  
28112  
{ECO:0000255|HAMAP-Rule:MF\_03052},  
MOCO1-B, Molybdenum cofactor synthesis  
protein 2 large subunit  
{ECO:0000255|HAMAP-Rule:MF\_03052},  
Molybdenum cofactor synthesis protein 2B  
{ECO:0000255|HAMAP-Rule:MF\_03052},  
MOCS2B  
{ECO:0000255|HAMAP-Rule:MF\_03052},  
Molybdopterin-synthase large subunit, MPT  
synthase large subunit, MOCS2  
{ECO:0000255|HAMAP-Rule:MF\_03052},  
MCBPE, MOCO1

#### Target/Specificity

This MOCS2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 14-43 amino acids from the N-terminal region of human MOCS2.

#### Dilution

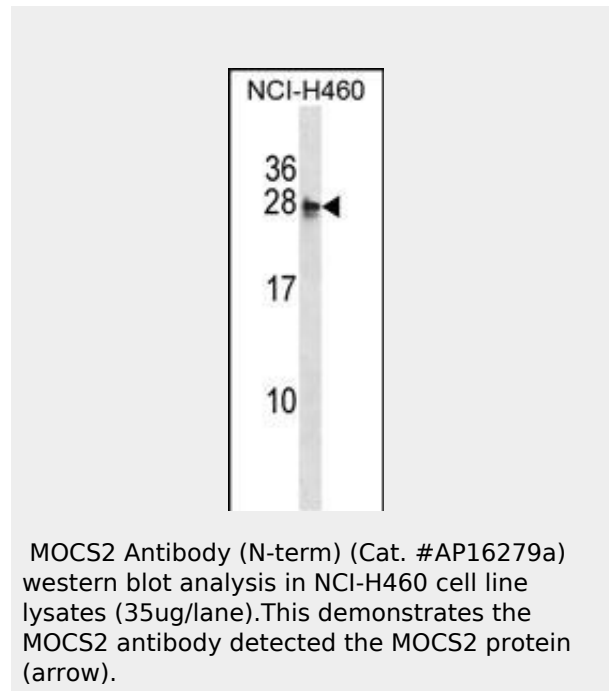
WB~~1:1000

#### 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.



#### MOCS2 Antibody (N-term) - Background

Eukaryotic molybdoenzymes use a unique molybdenum cofactor (MoCo) consisting of a pterin, termed molybdopterin, and the catalytically active metal molybdenum. MoCo is synthesized from precursor Z by the heterodimeric enzyme molybdopterin synthase. The large and small subunits of molybdopterin synthase are both encoded from this gene by overlapping open reading frames. The proteins were initially thought to be encoded from a bicistronic transcript. They are now thought to be encoded from monocistronic transcripts. Alternatively spliced transcripts have been found for this locus that encode the large and small subunits.

#### MOCS2 Antibody (N-term) - References

Per, H., et al. Brain Dev. 29(6):365-368(2007)  
Hahnewald, R., et al. Mol. Genet. Metab. 89(3):210-213(2006)  
Beausoleil, S.A., et al. Nat. Biotechnol. 24(10):1285-1292(2006)  
Leimkuhler, S., et al. Hum. Genet.

**Precautions**

MOCS2 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

117(6):565-570(2005)

Matthies, A., et al. Proc. Natl. Acad. Sci. U.S.A. 101(16):5946-5951(2004)

**MOCS2 Antibody (N-term) - Protein Information****Name** MOCS2

{ECO:0000255|HAMAP-Rule:MF\_03052}

**Synonyms** MCBPE, MOCO1

**Function**

Catalytic subunit of the molybdopterin synthase complex, a complex that catalyzes the conversion of precursor Z into molybdopterin. Acts by mediating the incorporation of 2 sulfur atoms from thiocarboxylated MOCS2A into precursor Z to generate a dithiolene group.

**Cellular Location**

Cytoplasm, cytosol {ECO:0000255|HAMAP-Rule:MF\_03052, ECO:0000269|PubMed:15073332}

**Tissue Location**

Highest levels are found in heart and skeletal muscle. Lower levels are present in brain, kidney and pancreas. Very low levels are found in lung and peripheral blood leukocytes

**MOCS2 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 Cytometry](#)
- [Cell Culture](#)