

PACO44659

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## Product Information

**Size:**

50ul

**Reactivity:**

Human

**Source:**

Rabbit

**Isotype:**

IgG

**Applications:**

ELISA, WB, IHC

**Recommended dilutions:**

ELISA:1:2000-1:10000, WB:1:1000-1:5000,  
IHC:1:20-1:200

**Protein Background:**

Plays a central role in 2-thiolation of mcm(5)S(2)U at tRNA wobble positions of cytosolic tRNA(Lys), tRNA(Glu) and tRNA(Gln). Also essential during biosynthesis of the molybdenum cofactor. Acts by mediating the C-terminal thiocarboxylation of sulfur carriers URM1 and MOCS2A. Its N-terminus first activates URM1 and MOCS2A as acyl-adenylates (-COAMP), then the persulfide sulfur on the catalytic cysteine is transferred to URM1 and MOCS2A to form thiocarboxylation (-COSH) of their C-terminus. The reaction probably involves hydrogen sulfide that is generated from the persulfide intermediate and that acts as nucleophile towards URM1 and MOCS2A. Subsequently, a transient disulfide bond is formed. Does not use thiosulfate as sulfur donor; NFS1 probably acting as a sulfur donor for thiocarboxylation reactions.

**Gene ID:**

MOCS3

**Uniprot**

O95396

**Synonyms:**

Adenylyltransferase and sulfurtransferase MOCS3 (Molybdenum cofactor synthesis protein 3) (Molybdopterin synthase sulfurylase) (MPT synthase sulfurylase) [Includes: Molybdopterin-synthase adenylyltransferase (EC 2.7.7.80) (Adenylyltransferase MOCS3) (Sulfur carrier protein MOCS2A adenylyltransferase); Molybdopterin-synthase sulfurtransferase (EC 2.8.1.11) (Sulfur carrier protein MOCS2A sulfurtransferase) (Sulfurtransferase MOCS3)], MOCS3, UBA4

**Immunogen:**

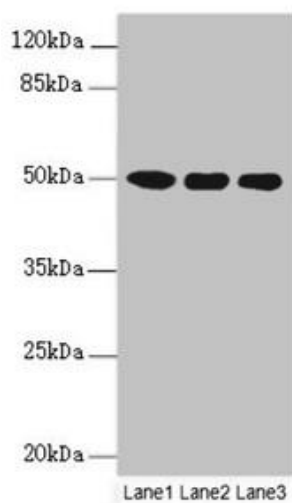
Recombinant Human Adenylyltransferase and sulfurtransferase MOCS3 protein (271-460AA).

**Storage:**

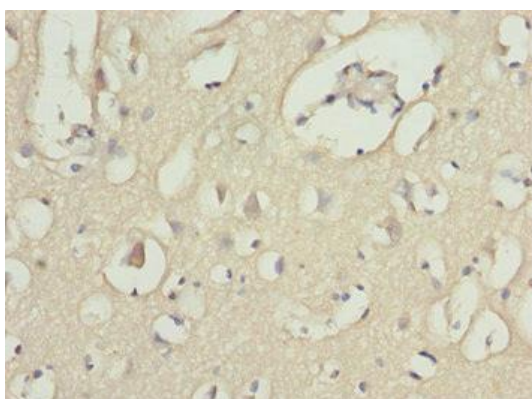
PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

## Product Images

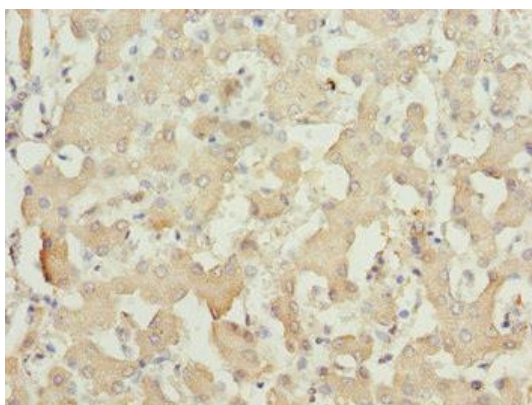
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Western blot. All lanes: MOCS3 antibody at 4.25 $\mu$ g/ml. Lane 1: A549 whole cell lysate. Lane 2: HepG2 whole cell lysate. Lane 3: Jurkat whole cell lysate. Secondary. Goat polyclonal to rabbit IgG at 1/10000 dilution. Predicted band size: 50 kDa. Observed band size: 50 kDa.



Immunohistochemistry of paraffin-embedded human brain tissue using PACO44659 at dilution of 1:100.



Immunohistochemistry of paraffin-embedded human liver tissue using PACO44659 at dilution of 1:100.