

Datasheet for ABIN7143362  
**anti-MOCS3 antibody (AA 271-460)**



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**3** Images

## Overview

Quantity:	100 µL
Target:	MOCS3
Binding Specificity:	AA 271-460
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This MOCS3 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC)

## Product Details

Immunogen:	Recombinant Human Adenylyltransferase and sulfurtransferase MOCS3 protein (271-460AA)
Isotype:	IgG
Cross-Reactivity:	Human
Purification:	Antigen Affinity Purified

## Target Details

Target:	MOCS3
Alternative Name:	MOCS3 ( <a href="#">MOCS3 Products</a> )
Background:	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

## Target Details

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.

Aliases: Adenylyltransferase MOCS3 antibody, dJ914P20.3 antibody, MGC9252 antibody, MOCS 3 antibody, MOCS3 antibody, MOCS3\_HUMAN antibody, Molybdenum cofactor synthesis 3 antibody, Molybdenum cofactor synthesis protein 3 antibody, Molybdopterin synthase sulfurylase antibody, Molybdopterin-synthase sulfurtransferase antibody, MPT synthase sulfurylase antibody, Sulfur carrier protein MOCS2A adenylyltransferase antibody, Sulfur carrier protein MOCS2A sulfurtransferase antibody, Sulfurtransferase MOCS3 antibody, UBA 4 antibody, UBA4 ubiquitin activating enzyme E1 homolog antibody, UBA4 antibody

UniProt: [O95396](#)

## Application Details

Application Notes: Recommended dilution: WB:1:1000-1:5000, IHC:1:20-1:200,

Restrictions: For Research Use only

## Handling

Format: Liquid

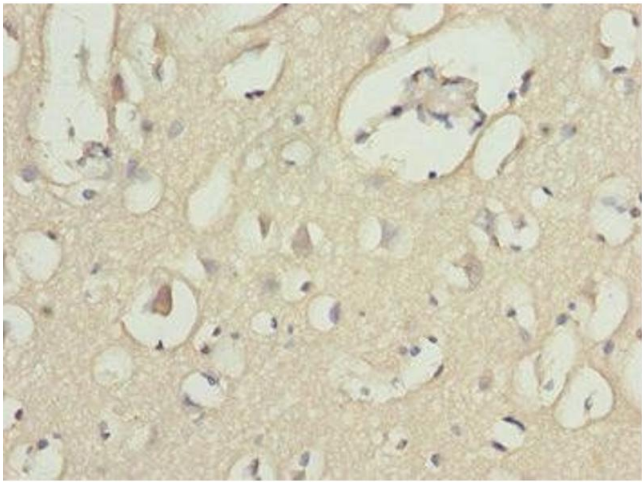
Buffer: PBS with 0.02 % sodium azide, 50 % glycerol, pH 7.3.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

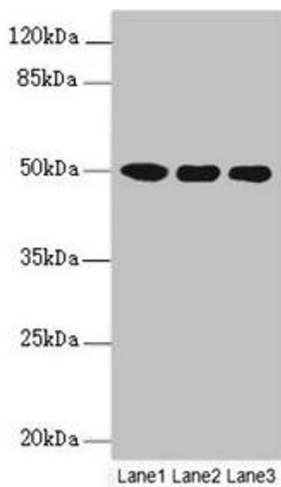
Storage: -20 °C,-80 °C

Storage Comment: Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.



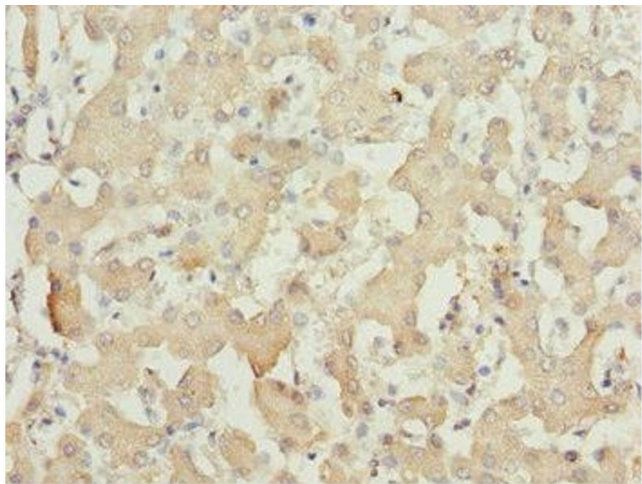
#### Immunohistochemistry

**Image 1.** Immunohistochemistry of paraffin-embedded human brain tissue using ABIN7143362 at dilution of 1:100



#### Western Blotting

**Image 2.** 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

**Image 3.** Immunohistochemistry of paraffin-embedded human liver tissue using ABIN7143362 at dilution of 1:100