abcam

Product datasheet

Anti-MOCS3 antibody ab229827

3 Images

Overview

Product name	Anti-MOCS3 antibody
Description	Rabbit polyclonal to MOCS3
Host species	Rabbit
Tested applications	**Suitable for:** IHC-P, WB
Species reactivity	**Reacts with:** Human
Immunogen	Recombinant fragment corresponding to Human MOCS3 aa 250 to the C-terminus. Database link: **O95396**

        Run BLAST with   **Run BLAST with**

Positive control	WB: A549, HepG2 and Jurkat whole cell lysates. IHC-P: Human liver and brain tissues.
General notes	The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.
	If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.30 Preservative: 0.02% Sodium azide Constituents: PBS, 50% Glycerol (glycerin, glycerine)
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab229827 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P		1/20 - 1/200.
WB		1/1000 - 1/5000. Detects a band of approximately 50 kDa (predicted molecular weight: 50 kDa).

Target

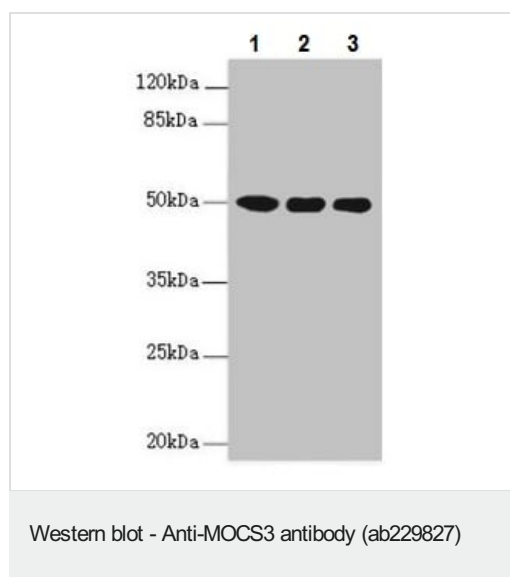|	
Function	Plays a central role in 2-thiolation of mcm(5)S(2)U at tRNA wobble positions of tRNA(Lys), tRNA(Glu) and tRNA(Gln). Also essential during biosynthesis of the molybdenum cofactor. Acts by mediating the C-terminal thiocarboxylation of sulfur carriers URM1 and MOCS2A. Its N-terminus first activates 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.
Pathway	tRNA modification; 5-methoxycarbonylmethyl-2-thiouridine-tRNA biosynthesis. Cofactor biosynthesis; molybdopterin biosynthesis.
Sequence similarities	In the N-terminal section; belongs to the hesA/moeB/thiF family. UBA4 subfamily. Contains 1 rhodanese domain.
Cellular localization	Cytoplasm > cytosol.

Images

Western blot - Anti-MOCS3 antibody (ab229827)

All lanes : Anti-MOCS3 antibody (ab229827) at 1/1000 dilution

Lane 1 : A549 (human lung carcinoma cell line) whole cell lysate

Lane 2 : HepG2 (human liver hepatocellular carcinoma cell line) whole cell lysate
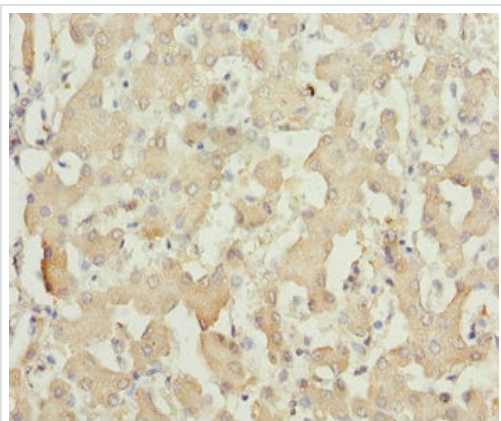
Lane 3 : Jurkat (human T cell leukemia cell line from peripheral blood) whole cell lysate

Secondary

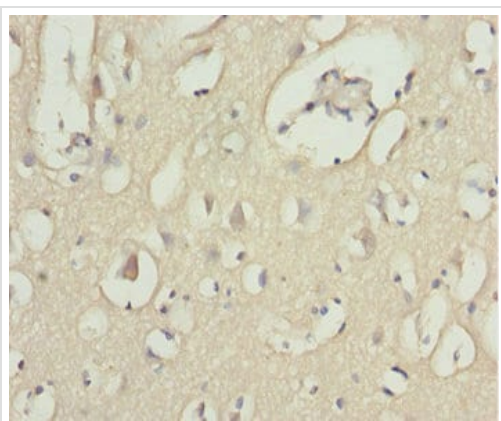**All lanes :** Goat polyclonal to Rabbit IgG at 1/10000 dilution

Predicted band size: 50 kDa
Observed band size: 50 kDa

Paraffin-embedded human liver tissue stained for MOCS3 using ab229827 at 1/100 dilution in immunohistochemical analysis.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MOCS3 antibody (ab229827)

Paraffin-embedded human brain tissue stained for MOCS3 using ab229827 at 1/100 dilution in immunohistochemical analysis.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MOCS3 antibody (ab229827)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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- Response to your inquiry within 24 hours

- We provide support in Chinese, English, French, German, Japanese and Spanish
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- We investigate all quality concerns to ensure our products perform to the highest standards

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