abcam

Product datasheet

Anti-MOCS3 antibody ab57229

1 Image

Overview

Product name	Anti-MOCS3 antibody
Description	Mouse monoclonal to MOCS3
Host species	Mouse
Tested applications	**Suitable for:** WB
Species reactivity	**Reacts with:** Human
Immunogen	Recombinant full length protein, corresponding to amino acids 1-461 of Human MOCS3

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Storage buffer	Preservative: None PBS, pH 7.2
Purity	Protein G purified
Clonality	Monoclonal
Isotype	IgG2b
Light chain type	kappa

Applications

Our Abpromise guarantee covers the use of **ab57229** in the following tested applications.

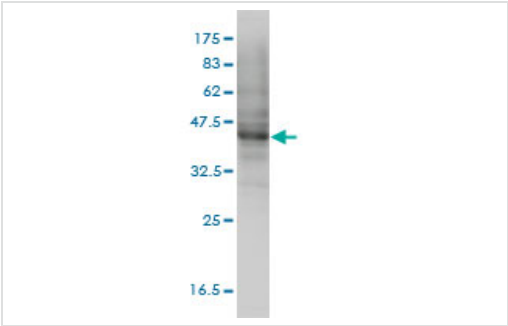
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use a concentration of 1 - 5 µg/ml. 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 (ab57229)

MOCS3 antibody (ab57229) at 1ug/lane +
HeLa cell lysate at 25ug/lane.

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