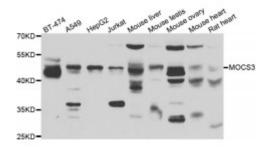


Anti-MOCS3 Antibody





Description Molybdenum cofactor (MoCo) is necessary for the function of all

molybdoenzymes. The protein encoded by this gene adenylates and activates molybdopterin synthase, an enzyme required for biosynthesis of MoCo. This gene contains no introns. A pseudogene of this gene is present

on chromosome 14.

Model STJ115378

Host Rabbit

Reactivity Human, Mouse, Rat

Applications WB

Immunogen Recombinant fusion protein containing a sequence corresponding to amino

acids 271-460 of human MOCS3 (NP_055299.1).

Gene ID 27304

Gene Symbol MOCS3

Dilution range WB 1:500 - 1:2000

Purification Affinity purification

Note For Research Use Only (RUO).

Protein Name Adenylyltransferase and sulfurtransferase MOCS3 Molybdenum cofactor

synthesis protein 3 Molybdopterin synthase sulfurylase MPT synthase

sulfurylase

Molecular Weight 49.669 kDa

Clonality Polyclonal

Conjugation Unconjugated

Isotype IgG

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

Storage Instruction Store at -20C. Avoid freeze / thaw cycles.

Database Links HGNC:157650MIM:609277Reactome:R-HSA-947581

Alternative Names Adenylyltransferase and sulfurtransferase MOCS3 Molybdenum cofactor

synthesis protein 3 Molybdopterin synthase sulfurylase MPT synthase

sulfurylase

Function 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

Cellular Localization Cytoplasm

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