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MOCS1 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP10254b

Product Information

Application	WB, IHC-P, E
Primary Accession	Q9NZB8
Other Accession	NP_005934.2
Reactivity	Human, Mouse
Predicted	Canine, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB27524
Calculated MW	70105
Antigen Region	462-490

Additional Information

Gene ID	4337
Other Names	Molybdenum cofactor biosynthesis protein 1, Cell migration-inducing gene 11 protein, Molybdenum cofactor synthesis-step 1 protein A-B, Cyclic pyranopterin monophosphate synthase, Molybdenum cofactor biosynthesis protein A, Cyclic pyranopterin monophosphate synthase accessory protein, Molybdenum cofactor biosynthesis protein C, MOCS1
Target/Specificity	This MOCS1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 462-490 amino acids from the C-terminal region of human MOCS1.
Dilution	WB~~1:1000 IHC-P~~1:100~500 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	MOCS1 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	MOCS1

Function	Isoform MOCS1A and isoform MOCS1B probably form a complex that catalyzes the conversion of 5'-GTP to cyclic pyranopterin monophosphate (cPMP) (PubMed:11891227, PubMed:23627491, PubMed:29368224, PubMed:31996372). MOCS1A catalyzes the cyclization of GTP to (8S)-3',8-cyclo-7,8-dihydroguanosine 5'-triphosphate and MOCS1B catalyzes the subsequent conversion of (8S)-3',8-cyclo-7,8- dihydroguanosine 5'-triphosphate to cPMP (PubMed:11891227, PubMed:23627491, PubMed:29368224, PubMed:31996372).
Cellular Location	[Isoform MOCS1A]: Mitochondrion matrix [Isoform 9]: Mitochondrion matrix [Isoform 3]: Cytoplasm. Note=Found in aggregates not co- localized with mitochondria.
Tissue Location	Isoform MOCS1A and isoform 2 are widely expressed.

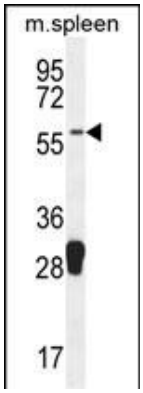
Background

MONDOA forms heterodimers with MLX (MIM 602976) that can bind to and activate transcription from CACGTG E boxes (Billin et al., 2000 [PubMed 11073985]).

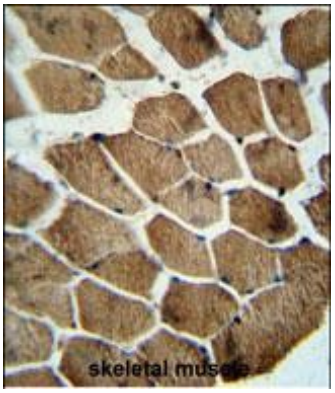
References

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Stoltzman, C.A., et al. Proc. Natl. Acad. Sci. U.S.A. 105(19):6912-6917(2008)
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Images



MOCS1 Antibody (C-term) (Cat. #AP10254b) western blot analysis in mouse spleen tissue lysates (35ug/lane).This demonstrates the MOCS1 antibody detected the MOCS1 protein (arrow).



MOCS1 antibody (C-term) (Cat. #AP10254b) immunohistochemistry analysis in formalin fixed and paraffin embedded human skeletal muscle followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the MOCS1 antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.