

MOCOS Rabbit pAb

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Catalog # AP58349

Product Information

Application	WB, IHC-P, IHC-F, IF, E
Primary Accession	Q96EN8
Predicted	Rat, Pig, Human, Mouse, Dog, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	98120
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human MOCOS
Epitope Specificity	551-650/888
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
DISEASE	Defects in MOCOS are the cause of xanthinuria type 2 (XU2) [MIM:603592]. Xanthinuria is characterized by excretion of very large amounts of xanthine in the urine and a tendency to form xanthine stones. Uric acid is strikingly diminished in serum and urine. In addition, patient suffering of XU2 cannot metabolize allopurinol into oxypurinol due to dual deficiency of xanthine dehydrogenase and aldehyde oxidase.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	MOCOS sulfurates the molybdenum cofactor of xanthine dehydrogenase (XDH; MIM 607633) and aldehyde oxidase (AOX1; MIM 602841), which is required for their enzymatic activities (Ichida et al., 2001 [PubMed 11302742]).[supplied by OMIM, Feb 2010]

Additional Information

Gene ID	55034
Other Names	Molybdenum cofactor sulfurase {ECO:0000255 HAMAP-Rule:MF_03050}, MCS {ECO:0000255 HAMAP-Rule:MF_03050}, MOS {ECO:0000255 HAMAP-Rule:MF_03050}, MoCo sulfurase {ECO:0000255 HAMAP-Rule:MF_03050}, hMCS, 2.8.1.9 {ECO:0000255 HAMAP-Rule:MF_03050, ECO:0000269 PubMed:34356852}, Molybdenum cofactor sulfurtransferase {ECO:0000255 HAMAP-Rule:MF_03050}, MOCOS {ECO:0000255 HAMAP-Rule:MF_03050}
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,ELISA=1:5000-10000

Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
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Protein Information

Name	MOCOS {ECO:0000255 HAMAP-Rule:MF_03050}
Function	Sulfurates the molybdenum cofactor (PubMed: 34356852). Sulfation of molybdenum is essential for xanthine dehydrogenase (XDH) and aldehyde oxidase (ADO) enzymes in which molybdenum cofactor is liganded by 1 oxygen and 1 sulfur atom in active form (PubMed: 34356852). In vitro, the C-terminal domain is able to reduce N- hydroxylated prodrugs, such as benzamidoxime (PubMed: 16973608).

Background

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