

MOCS2 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP56799

Product Information

Application	IHC-P, IHC-F, IF, ICC, E
Primary Accession	O96007
Reactivity	Rat, Pig, Dog, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	20944

Additional Information

Gene ID	4338
Other Names	Molybdopterin synthase catalytic subunit {ECO:0000255 HAMAP-Rule:MF_03052}, 2.8.1.12 {ECO:0000255 HAMAP-Rule:MF_03052}, MOCO1-B, Molybdenum cofactor synthesis protein 2 large subunit {ECO:0000255 HAMAP-Rule:MF_03052}, Molybdenum cofactor synthesis protein 2B {ECO:0000255 HAMAP-Rule:MF_03052}, MOCS2B {ECO:0000255 HAMAP-Rule:MF_03052}, Molybdopterin-synthase large subunit, MPT synthase large subunit, MOCS2 {ECO:0000255 HAMAP-Rule:MF_03052}, MCBPE, MOCO1
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC=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.

Protein Information

Name	MOCS2 {ECO:0000255 HAMAP-Rule:MF_03052}
Synonyms	MCBPE, MOCO1
Function	Catalytic subunit of the molybdopterin synthase complex, a complex that catalyzes the conversion of precursor Z into molybdopterin. Acts by mediating the incorporation of 2 sulfur atoms from thiocarboxylated MOCS2A into precursor Z to generate a dithiolene group (By similarity) (PubMed: 12732628 , PubMed: 15073332 , PubMed: 25709896). Together with MBIP, inhibits the activity of stress kinase EIF2AK2/PKR; this may suppress JNK activation and subsequent stress-responsive transcription, or suppress eIF2a phosphorylation to favor translation (PubMed: 26705305).

Cellular Location	Cytoplasm, cytosol {ECO:0000255 HAMAP- Rule:MF_03052, ECO:0000269 PubMed:15073332, ECO:0000269 PubMed:26705305}. Nucleus
Tissue Location	Highest levels are found in heart and skeletal muscle. Lower levels are present in brain, kidney and pancreas. Very low levels are found in lung and peripheral blood leukocytes

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