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[Marker Primary Antibody]

Rabbit Anti-MOCOS/HRP Conjugated antibody

Catalog Number: SL5936R-HRP

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Anti-MOCOS/HRP
Immunogen:	KLH conjugated synthetic peptide derived from human MOCOS
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Applications:	WB=1:500-2000 IHC-P=1:100-500 IHC-F=1:100-500 ELISA=1:5000-10000 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	(predicted:Human,Mouse,Rat,Dog,Pig,Horse)
Background:	background: 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] **Function:** Sulfurates the molybdenum cofactor. 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. 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

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	of XU2 cannot metabolize allopurinol into oxypurinol due to dual deficiency of xanthine dehydrogenase and aldehyde oxidase. **Similarity:** Belongs to the class-V pyridoxal-phosphate-dependent aminotransferase family. MOCOS subfamily. Contains 1 MOSC domain. **Database links:** **Entrez Gene:** 55034 Human Omim: 613274 Human **SwissProt:** Q96EN8 Human Important **Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.