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[Marker Primary Antibody]

Rabbit Anti-MOCOS/Cy3 Conjugated antibody

Catalog Number: SL5936R-Cy3

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Anti-MOCOS/Cy3
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:	IF=1:100-500 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 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

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

	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.