SunLong Biotech Co.,LTD
Tel: 0086-571- 56623320 Fax:0086-571- 56623318
E-mail:sales@sunlongbiotech.com
www.sunlongbiotech.com

Rabbit Anti-MOCS1 antibody

SL17700R

Product Name:	MOCS1
Chinese Name:	钼辅因子合成蛋白1抗体
Alias:	Cell migration-inducing gene 11 protein; MIG11; MOCOD; Mocs1; MOCS1_HUMAN; Molybdenum cofactor biosynthesis protein 1; Molybdenum cofactor biosynthesis protein A; Molybdenum cofactor biosynthesis protein C; Molybdenum cofactor synthesis 1; Molybdenum cofactor synthesis-step 1 protein A-B.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Pig,Horse,Rabbit,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500（Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	70kDa
Cellular localization:	The nucleuscytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human MOCS1:21-120/636
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
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 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	Molybdenum cofactor biosynthesis is a conserved pathway leading to the biological activation of molybdenum. The protein encoded by this gene is involved in this pathway. This gene was originally thought to produce a bicistronic mRNA with the potential to produce two proteins (MOCS1A and MOCS1B) from adjacent open

reading frames. However, only the first open reading frame (MOCS1A) has been found to encode a protein from the putative bicistronic mRNA, whereas additional splice variants, whose full-length natures have yet to be determined, are likely to produce a fusion between the two open reading frames. This gene is defective in patients with molybdenum cofactor deficiency, type A. A related pseudogene has been identified on chromosome 16. [provided by RefSeq, Jan 2010]

Function:
Isoform MOCS1A and isoform MOCS1B probably form a complex that catalyzes the conversion of a guanosine derivative to precursor Z during molybdenum cofactor biosynthesis.

Tissue Specificity:
Isoform MOCS1A and isoform 2 are widely expressed.

Post-translational modifications:
Isoform MOCS1A, isoform 2 and isoform 3 are probably thiocarboxylated at their C-terminus. Thiocarboxylation probably plays a central role in molybdenum cofactor biosynthesis, since mutagenesis of the last 2 Gly residues of isoform MOCS1A abolishes the catalytic activity of the enzyme. Thiocarboxylation is absent in isoform MOCS1B, which lacks the C-terminal Gly residue.

DISEASE:
Defects in MOCS1 are the cause of molybdenum cofactor deficiency type A (MOCOD type A) [MIM:252150]; an autosomal recessive disease which leads to the pleiotropic loss of all molybdoenzyme activities and is characterized by severe neurological damage, neonatal seizures and early childhood death.

Similarity:
In the C-terminal section; belongs to the moaC family.
In the N-terminal section; belongs to the moaA/nifB/pqqE family.

SWISS:
Q9NZB8

Gene ID:
4337

Database links:

Entrez Gene: 4337 Human

Entrez Gene: 56738 Mouse

Entrez Gene: 301221 Rat

	Omim: 603707 Human SwissProt: Q1JQD7 Cow SwissProt: Q9NZB8 Human SwissProt: Q5RKZ7 Mouse Unigene: 718492 Human Unigene: 22256 Mouse **Important Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.