

For Research Use Only

# MOCS1 Polyclonal antibody

Catalog Number: 31550-1-AP



## Basic Information

<b>Catalog Number:</b> 31550-1-AP	<b>GenBank Accession Number:</b> NM_001075098	<b>Purification Method:</b> Antigen affinity Purification
<b>Concentration:</b> 400 ug/ml	<b>GeneID (NCBI):</b> 4337	<b>Recommended Dilutions:</b> WB: 1:1000-1:6000 IF/ICC: 1:50-1:500
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q9NZB8	
<b>Isotype:</b> IgG	<b>Full Name:</b> molybdenum cofactor synthesis 1	
<b>Immunogen Catalog Number:</b> AG35879	<b>Calculated MW:</b> 70kDa	
	<b>Observed MW:</b> 40-43 kDa	

## Applications

<b>Tested Applications:</b> WB, IF/ICC, ELISA	<b>Positive Controls:</b> WB : Jurkat cells, mouse liver tissue, rat liver tissue
<b>Species Specificity:</b> human, mouse, rat	<b>IF/ICC :</b> Jurkat cells,

## Background Information

MOCS1 (Molybdenum cofactor synthesis 1), also known as MOCS1A, MOCS1B, MOCOD, plays a crucial role in the biosynthesis of molybdenum cofactor and molybdopterin, which are essential for the activity of several key enzymes involved in carbon, nitrogen, and sulfur metabolism. MOCS1 produces two functional proteins, MOCS1A and MOCS1B, which follow different translocation routes before mitochondrial matrix import for cPMP biosynthesis involving both proteins (PMID: 31996372). MOCS1 was tumor suppressor gene affecting survival positively, while the other genes were oncogenes whose high expression was associated with poor survival (PMID: 37120564). The MOCS1 protein exists multiple isoforms.

## Storage

**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol, pH7.3  
**Aliquoting is unnecessary for -20°C storage**

For technical support and original validation data for this product please contact:

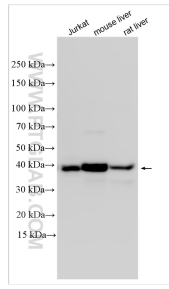
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

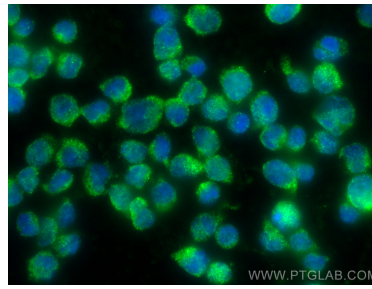
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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 31550-1-AP (MOCS1 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed Jurkat cells using MOCS1 antibody (31550-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).