

Rabbit MOCS1 Polyclonal Antibody | anti-MOCS1 antibody

Anti-MOCS1 Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127463	Rabbit	Human, Mouse, Rat	ELISA, Immunofluorescence, Immunocytochemistry, Western Blot

PRODUCT SYNONYMS

MOCS1; Polyclonal Antibody; Anti-MOCS1 Antibody Picoband; Serine/threonine-protein kinase AtPK1/AtPK6; 70 kDa ribosomal protein S6 kinase 1 antibody; KS6B1_HUMAN antibody; p70 alpha antibody; P70 beta 1 antibody; p70 ribosomal S6 kinase alpha antibody; p70 ribosomal S6 kinase beta 1 antibody; p70 S6 kinase alpha antibody; P70 S6 Kinase antibody; p70 S6 kinase alpha 1 antibody; p70 S6 kinase alpha 2 antibody; p70 S6K antibody; p70 S6K-alpha antibody; p70 S6KA antibody; p70(S6K) alpha antibody; p70(S6K)-alpha antibody; p70-alpha antibody; p70-S6K 1 antibody; p70-S6K antibody; P70S6K antibody; P70S6K1 antibody; p70S6Kb antibody; PS6K antibody; Ribosomal protein S6 kinase 70kDa polypeptide 1 antibody; Ribosomal protein S6 kinase beta 1 antibody; Ribosomal protein S6 kinase beta-1 antibody; Ribosomal protein S6 kinase I antibody; RPS6KB1 antibody; S6K antibody; S6K-beta-1 antibody; S6K1 antibody; Serine/threonine kinase 14 alpha antibody; Serine/threonine-protein kinase 14A antibody; STK14A antibody; anti-MOCS1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	Expressed in all tissues.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Applicable Applications for anti-MOCS1 antibody	ELISA, IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Immunogen	E coli-derived human MOCS1 recombinant protein (Position: E52-R584). Human MOCS1 shares 86.3% amino acid (aa) sequence identity with mouse MOCS1.
Subcellular Localization	Cytoplasm, Nucleus
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
Cross Reactivity	No cross reactivity with other proteins.
Protein Function	Downstream effector of TOR signaling pathway involved in osmotic stress response. Could be involved in the control of plant growth and development. Phosphorylates the ribosomal proteins P14, P16 and S6. Functions as a repressor of cell proliferation and required for maintenance of chromosome stability and ploidy levels through the RBR1-E2F pathway.
Preparation and Storage	At -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months.Avoid repeated freezing and thawing.



IF (Immunofluorescence)

Figure 2. IF analysis of MOCS1 using anti-MOCS1 antibody (AAA127463).MOCS1 was detected in an immunocytochemical section of A549 cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5ug/mL rabbit anti-MOCS1 Antibody (AAA127463) overnight at 4 degree C. Cy3 Conjugated Goat Anti-Rabbit IgG (BA1032) was used as secondary antibody at 1:500 dilution and incubated for 30 minutes at 37 degree C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



WB (Western Blot)

Figure 1. Western blot analysis of MOCS1 using anti-MOCS1 antibody (AAA127463).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.Lane 1: human Jurkat whole cell lysates,Lane 2: human Caco-2 whole cell lysates,Lane 3: human HepG2 whole cell lysates,Lane 4: human K562 whole cell lysates,Lane 5: rat liver tissue lysates,Lane 6: rat RH-35 whole cell lysates,Lane 7: mouse liver whole cell lysates,Lane 8: mouse Hepa1-6 whole cell lysates.After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-MOCS1 antigen affinity purified polyclonal antibody (#AAA127463) at 0.5ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for MOCS1 at approximately 72 kDa. The expected band size for MOCS1 is at 70 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-MOCS1 antibody	The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Product Categories/Family for anti-MOCS1 antibody	Primary Antibodies; Signal Transduction; Signaling Pathway; Small G Proteins
References	1. Reiss, J., Christensen, E., Dorche, C. Molybdenum cofactor deficiency: first prenatal genetic analysis. Prenatal Diag. 19: 386-388, 1999.2. Reiss, J., Christensen, E., Kurlemann, G., Zabot, M.-T., Dorche, C. Genomic structure and mutational spectrum of the bicistronic MOCS1 gene defective in molybdenum cofactor deficiency type A. Hum. Genet. 103: 639-644, 1998. 3. Reiss, J., Cohen, N., Dorche, C., Mandel, H., Mendel, R. R., Stallmeyer, B., Zabot, M.-T., Dierks, T. Mutations in a polycistronic nuclear gene associated with molybdenum cofactor deficiency. Nature Genet. 20: 51-53, 1998.

NCBI AND UNIPROT INFORMATION

NCBI GI #	116734668
NCBI GeneID	4337
NCBI Accession #	NP_001068566.1
NCBI GenBank Nucleotide #	NM_001075098.3
UniProt Accession #	Q9NZB8; O14940; O14941; O75710; Q5J7W0; Q5TCE1; Q5TCE2; Q5TCE6; Q5TCE9; Q5TCF0; B3KPT7; B4DTP1
Molecular Weight	70,105 Da
NCBI Official Full Name	molybdenum cofactor biosynthesis protein 1 isoform 4
NCBI Official Synonym Full Names	molybdenum cofactor synthesis 1
NCBI Official Symbol	MOCS1
NCBI Official Synonym Symbols	MIG11; MOCOD
NCBI Protein Information	molybdenum cofactor biosynthesis protein 1; MOCS1A enzyme; migration-inducing gene 11 protein; cell migration-inducing gene 11 protein; molybdenum cofactor biosynthesis protein A; molybdenum cofactor synthesis-step 1 protein A-B
UniProt Protein Name	Molybdenum cofactor biosynthesis protein 1

UniProt Gene Name	MOCS1
UniProt Entry Name	MOCS1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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