ARG44182
anti-MOCS1 antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes MOCS1
Tested Reactivity	Hu, Ms, Rat
Tested Application	FACS, ICC/IF, IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	MOCS1
Species	Human
Immunogen	Recombinant protein of Human MOCS1
Conjugation	Un-conjugated
Alternate Names	MOCS1; Molybdenum Cofactor Synthesis 1; MOCOD; Molybdenum Cofactor Synthesis-Step 1 Protein A-B; Molybdenum Cofactor Biosynthesis Protein 1; Cell Migration-Inducing Gene 11 Protein; Molybdenum Cofactor Biosynthesis Protein A; MOCS1A Enzyme; MOCS1A; MOCS1B; MIG11

Application Instructions

Application table

Application	Dilution
FACS	1-3 µg/1x10^6 cells
ICC/IF	5 µg/ml
IHC-P	2-5 µg/ml
WB	0.25-0.5 µg/ml

Application Note: * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

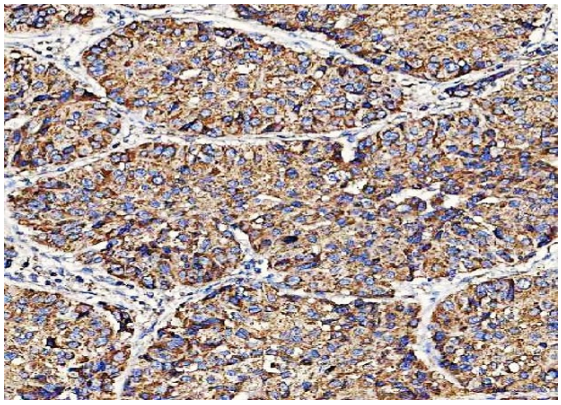
Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	0.9% NaCl, 0.2% Na2HPO4, 0.05% Sodium azide and 5% BSA.
Preservative	0.05% Sodium azide
Stabilizer	5% BSA
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed

	before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

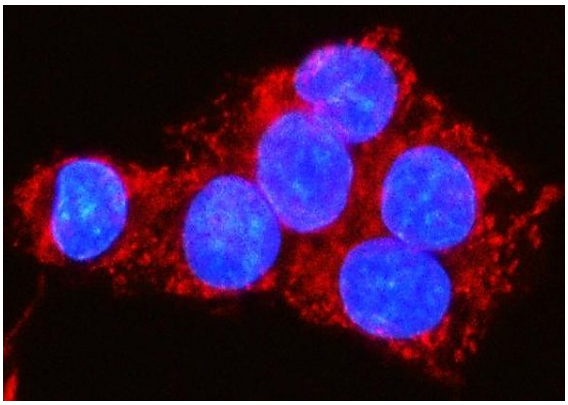
Gene Symbol	MOCS1
Gene Full Name	Molybdenum Cofactor Synthesis 1
Background	Molybdenum cofactor biosynthesis is a conserved pathway leading to the biological activation of molybdenum. The protein encoded by this gene is involved in this pathway. This gene was originally thought to produce a bicistronic 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 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.
Function	Isoform MOCS1A and isoform MOCS1B probably form a complex that catalyzes the conversion of 5'-GTP to cyclic pyranopterin monophosphate (cPMP). MOCS1A catalyzes the cyclization of GTP to (8S)-3',8-cyclo-7,8-dihydroguanosine 5'-triphosphate and MOCS1B catalyzes the subsequent conversion of (8S)-3',8-cyclo-7,8-dihydroguanosine 5'-triphosphate to cPMP.
Calculated Mw	70 kDa
PTM	Acetylation, Phosphoprotein
Cellular Localization	Cytosol, Nucleus

Images



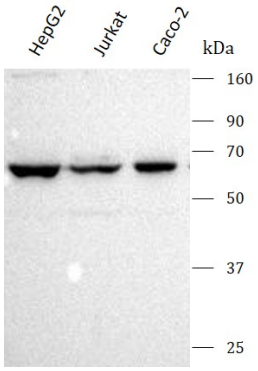
ARG44182 anti-MOCS1 antibody IHC-P image

Immunohistochemistry: Human liver cancer stained with ARG44182 anti-MOCS1 antibody at 2 µg/mL dilution.



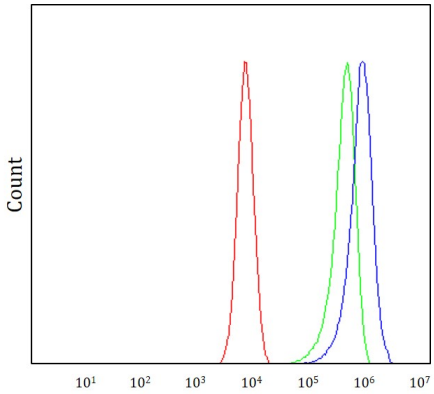
ARG44182 anti-MOCS1 antibody ICC/IF image

Immunofluorescence: HepG2 stained with ARG44182 anti-MOCS1 antibody at 5 µg/mL dilution.



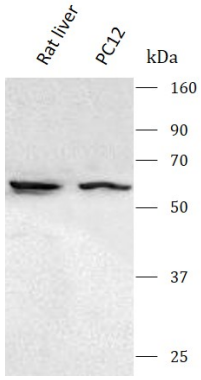
ARG44182 anti-MOCS1 antibody WB image

Western blot: HepG2, Jurkat and Caco-2 stained with ARG44182 anti-MOCS1 antibody at 0.5 µg/mL dilution.



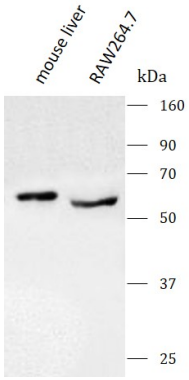
ARG44182 anti-MOCS1 antibody FACS image

Flow Cytometry: K562 stained with ARG44182 anti-MOCS1 antibody at 1 µg/1x10^6 cells dilution.



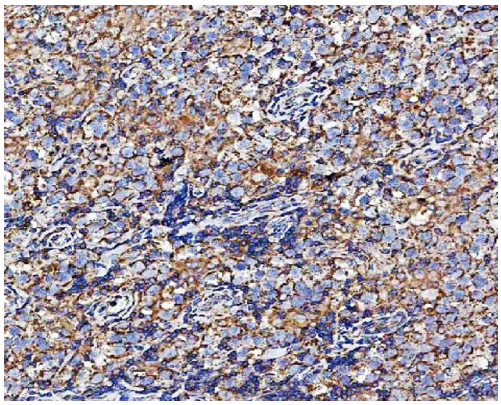
ARG44182 anti-MOCS1 antibody WB image

Western blot: rat liver and PC-12 stained with ARG44182 anti-MOCS1 antibody at 0.5 µg/mL dilution.



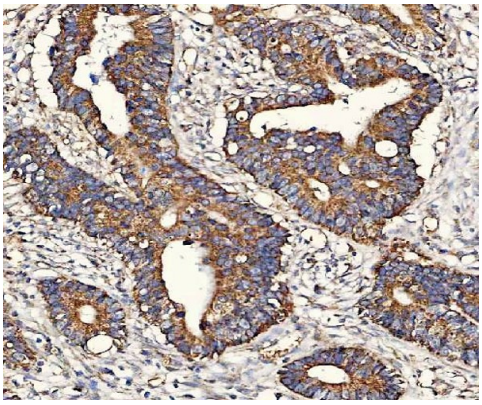
ARG44182 anti-MOCS1 antibody WB image

Western blot: Mouse liver and RAW264.7 stained with ARG44182 anti-MOCS1 antibody at 0.5 µg/mL dilution.



ARG44182 anti-MOCS1 antibody IHC-P image

Immunohistochemistry: Human testicular germ cell tumors stained with ARG44182 anti-MOCS1 antibody at 2 µg/mL dilution.



ARG44182 anti-MOCS1 antibody IHC-P image

Immunohistochemistry: Human colorectal adenocarcinoma stained with ARG44182 anti-MOCS1 antibody at 2 µg/mL dilution.