

Rabbit anti-Human MOCS2 Polyclonal Antibody | anti-MOCS2 antibody

Anti-MOCS2 Antibody Picoband

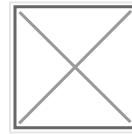
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA19885	Rabbit	Human	Western Blot, Immunohistochemistry, Flow Cytometry, Functional Assay, ELISA

PRODUCT SYNONYMS

MOCS2; Polyclonal Antibody; Anti-MOCS2 Antibody Picoband; Gamma-aminobutyric acid type B receptor subunit 1; amyloid beta precursor protein binding family A member 3; Amyloid-beta A4 precursor protein-binding family A member 3; Adapter protein X11gamma; Neuron-specific X11L2 protein; Neuronal Munc18-1-interacting protein 3; Mint-3; APBA3; MINT3; X11L2; anti-MOCS2 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Expressed in all tissues examined with lower levels in brain and testis.
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-MOCS2 antibody	WB (Western Blot), IHC (Immunohistochemistry), FCM/FACS (Flow Cytometry), ELISA
Application Notes	WB: 0.25-0.5ug/ml, Human IHC: 2-5ug/ml, Human FC/FACS (Fixed): 1-3ug/1x10 ⁶ cells, Human ELISA: 0.1-0.5ug/ml
Immunogen	E coli-derived human MOCS2 recombinant protein (Position: M1-E168).
Subcellular Localization	Perinuclear region
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	May modulate processing of the amyloid-beta precursor protein (APP) and hence formation of APP-beta. May enhance the activity of HIF1A in macrophages by inhibiting the activity of HIF1AN.
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.



IHC (Immunohistochemistry)

Figure 5. IHC analysis of MOCS2 using anti-MOCS2 antibody (AAA19885). MOCS2 was detected in a paraffin-embedded section of human skeletal muscle tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-MOCS2 Antibody (AAA19885) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-MOCS2 Antibody (AAA19885) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-MOCS2 Antibody (AAA19885) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-MOCS2 Antibody (AAA19885) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Lane 2: human LNCAP whole cell lysates, Lane 3: human HeLa whole cell lysates, Lane 4: human 293T whole cell lysates, Lane 5: human Jurkat whole cell lysates, Lane 6: human K562 whole cell lysates, Lane 7: human HepG2 whole cell lysates, Lane 8: human MCF-7 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-MOCS2 antigen affinity purified polyclonal antibody (#AAA19885) 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 MOCS2 at approximately 21 kDa. The expected band size for MOCS2 is at 21 kDa.

Related Product Information for anti-MOCS2 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-MOCS2 antibody	Primary Antibodies ; Interleukins
References	1. Dickinson, M. E., Flenniken, A. M., Ji, X., Teboul, L., Wong, M. D., White, J. K., Meehan, T. F., Weninger, W. J., Westerberg, H., Adissu, H., Baker, C. N., Bower, L., and 73 others. High-throughput discovery of novel developmental phenotypes. Nature 537: 508-514, 2016. Note: Erratum: Nature 551: 398 only, 2017. 2. Hahnewald, R., Leimkuhler, S., Vilaseca, A., Acquaviva-Bourdain, C., Lenz, U., Reiss, J. A novel MOCS2 mutation reveals coordinated expression of the small and large subunit of molybdopterin synthase. Molec. Genet. Metab. 89: 210-213, 2006. 3. Johnson, J. L., Coyne, K. E., Rajagopalan, K. V., Van Hove, J. L. K., Mackay, M., Pitt, J., Boneh, A. Molybdopterin synthase mutations in a mild case of molybdenum cofactor deficiency. Am. J. Med. Genet. 104: 169-173, 2001.

NCBI GI #	4758732
NCBI GeneID	4338
NCBI Accession #	NP_004522
NCBI GenBank Nucleotide #	NM_004531.4

UniProt Accession #	O96007 ; Q6IAI3 ; O96033
Molecular Weight	25 kDa (224aa) confirmed by MALDI-TOF
NCBI Official Full Name	molybdopterin synthase catalytic subunit large subunit MOCS2B
NCBI Official Synonym Full Names	molybdenum cofactor synthesis 2
NCBI Official Symbol	MOCS2
NCBI Official Synonym Symbols	MPTS; MCBPE; MOCO1; MOCODB
NCBI Protein Information	molybdopterin synthase catalytic subunit; molybdopterin synthase sulfur carrier subunit
UniProt Protein Name	Molybdopterin synthase catalytic subunit
UniProt Gene Name	MOCS2
UniProt Synonym Gene Names	MPT synthase large subunit

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/mocs2-antibody-western-blot-immunohistochemistry-flow-cytometry-elisa/19885>