

Rabbit anti-Human MOAP1 Polyclonal Antibody | anti-MOAP1 antibody

Anti-MOAP1 Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127495	Rabbit	Human	ELISA, Flow Cytometry, Functional Assay, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

MOAP1; Polyclonal Antibody; Anti-MOAP1 Antibody Picoband; Chromaffin granule amine transporter; BMP and activin membrane bound inhibitor; BMP and activin membrane-bound inhibitor homolog; Non-metastatic gene A protein; Putative transmembrane protein; NMA; BAMBI; anti-MOAP1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Expressed in adult liver.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Applicable Applications for anti-MOAP1 antibody	ELISA, FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	E coli-derived human MOAP1 recombinant protein (Position: R18-L341).
Subcellular Localization	Cytoplasm, Nucleus, Translocates to nuclear foci during heat shock
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	Negatively regulates TGF-beta signaling.
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.

IMAGES



FCM/FACS (Flow Cytometry)

Figure 4. Flow Cytometry analysis of U251 cells using anti-MOAP1 antibody (AAA127495). Overlay histogram showing U251 cells stained with AAA127495 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-MOAP1 Antibody (AAA127495, 1ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



IHC (Immunohistochemistry)

Figure 3. IHC analysis of MOAP1 using anti-MOAP1 antibody (AAA127495). MOAP1 was detected in a paraffin-embedded section of human liver cancer 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-MOAP1 Antibody (AAA127495) 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 with DAB as the chromogen.



IHC (Immunohistochemistry)

Figure 2. IHC analysis of MOAP1 using anti-MOAP1 antibody (AAA127495).MOAP1 was detected in a paraffin-embedded section of human glioma 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-MOAP1 Antibody (AAA127495) 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 with DAB as the chromogen.



WB (Western Blot)

Figure 1. Western blot analysis of MOAP1 using anti-MOAP1 antibody (AAA127495).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 RT4 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-MOAP1 antigen affinity purified polyclonal antibody (#AAA127495) 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 MOAP1 at approximately 35 kDa. The expected band size for MOAP1 is at 40 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-MOAP1 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-MOAP1 antibody	Primary Antibodies ; Atherosclerosis ; Cardiovascular ; Chaperones ; Heat Shock Proteins ; Protein Trafficking ; Signal Transduction
References	1. Baksh, S., Tommasi, S., Fenton, S., Yu, V. C., Martins, L. M., Pfeifer, G. P., Latif, F., Downward, J., Neel, B. G. The tumor suppressor RASSF1A and MAP-1 link death receptor signaling to Bax conformational change and cell death. Molec. Cell 18: 637-650, 2005. 2. Gross, M. B. Personal Communication. Baltimore, Md. 2/27/2014.3. Tan, K. O., Tan, K. M. L., Chan, S.-L., Yee, K. S. Y., Bevort, M., Ang, K. C., Yu, V. C. MAP-1, a novel proapoptotic protein containing a BH3-like motif that associates with Bax through its Bcl-2 homology domains. J. Biol. Chem. 276: 2802-2807, 2001.

NCBI AND UNIPROT INFORMATION

NCBI GI #	19923584
NCBI GeneID	64112
NCBI Accession #	NP_071434.2
NCBI GenBank Nucleotide #	NM_022151.4
UniProt Accession #	Q96BY2 ; Q9H833 ; Q9HAS1 ; B2RDF6
Molecular Weight	39,513 Da
NCBI Official Full Name	modulator of apoptosis 1
NCBI Official Synonym Full Names	modulator of apoptosis 1
NCBI Official Symbol	MOAP1
NCBI Official Synonym Symbols	MAP-1; PNMA4
NCBI Protein Information	modulator of apoptosis 1; MAP1; paraneoplastic Ma antigen family member 4; paraneoplastic antigen Ma4; paraneoplastic antigen like 4
UniProt Protein Name	Modulator of apoptosis 1
UniProt Gene Name	MOAP1
UniProt Synonym Gene Names	PNMA4; MAP-1; MAP1
UniProt Entry Name	MOAP1_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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Online datasheet: <https://stage.aaabiotech.com/polyclonal/moap1-antibody-flow-cytometry-immunohistochemistry-western-blot-elisa/127495>