

Rabbit MTAP Polyclonal Antibody | anti-MTAP antibody

Anti-MTAP Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127300	Rabbit	Human, Mouse, Rat	ELISA, Flow Cytometry, Functional Assay, Immunofluorescence, Immunocytochemistry, Western Blot

PRODUCT SYNONYMS

MTAP; Polyclonal Antibody; Anti-MTAP Antibody Picoband; Zinc finger protein Helios; cytochrome c oxidase subunit 4l1 ; Cytochrome c oxidase subunit 4 isoform 1; mitochondrial; Cytochrome c oxidase polypeptide IV; Cytochrome c oxidase subunit IV isoform 1; COX IV-1; COX4l1; COX4; anti-MTAP antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Ubiquitous.
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-MTAP antibody	ELISA, FCM/FACS (Flow Cytometry), IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Immunogen	E coli-derived human MTAP recombinant protein (Position: E31-H283).
Subcellular Localization	Mitochondrion inner membrane
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	This protein is one of the nuclear-coded polypeptide chains of cytochrome c oxidase, the terminal oxidase in mitochondrial electron transport.
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 3. Flow Cytometry analysis of U2OS cells using anti-MTAP antibody (AAA127300).Overlay histogram showing U2OS cells stained with AAA127300 (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-MTAP Antibody (AAA127300, 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 without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.



IF (Immunofluorescence)

Figure 2. IF analysis of MTAP using anti-MTAP antibody (AAA127300).MTAP was detected in an immunocytochemical section of PC-3 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-MTAP Antibody (AAA127300) overnight at 4 degree C. DyLight550 Conjugated Goat Anti-Rabbit IgG (BA1135) 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 MTAP using anti-MTAP antibody (AAA127300). 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 Hela whole cell lysates, Lane 2: human 293T whole cell lysates, Lane 3: human Raji whole cell lysates, Lane 4: rat PC-12 whole cell lysates, Lane 5: mouse RAW264.7 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-MTAP antigen affinity purified polyclonal antibody (#AAA127300) 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 MTAP at approximately 31 kDa. The expected band size for MTAP is at 31 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-MTAP 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-MTAP antibody	Primary Antibodies; Cancer; Cancer Metabolism; Integration Of Energy Metabolism; Metabolic Signaling Pathway ; Metabolism; Mitochondria; Mitochondrial; Mitochondrial Markers; Mitochondrial Metabolism; Organelles; Oxidative Phosphorylation; Pathways and Pro
References	1. Arnold, W. H. Hereditary bone dysplasia with sarcomatous degeneration. Ann. Intern. Med. 78: 902-906, 1973. 2. Burdon, K. P., Macgregor, S., Hewitt, A. W., Sharma, S., Chidlow, G., Mills, R. A., Danoy, P., Casson, R., Viswanathan, A. C., Liu, J. Z., Landers, J., Henders, A. K., and 13 others. Genome-wide association study identifies susceptibility loci for open angle glaucoma at TMCO1 and CDKN2B-AS1. Nature Genet. 43: 574-578, 2011.3. Camacho-Vanegas, O., Camacho, S. C., Till, J., Miranda-Lorenzo, I., Terzo, E., Ramirez, M. C., Schramm, V., Cordovano, G., Watts, G., Mehta, S., Kimonis, V., Hoch, B., Philibert, K. D., Raabe, C. A., Bishop, D. F., Glucksman, M. J., Martignetti, J. A. Primate genome gain and loss: a bone dysplasia, muscular dystrophy, and bone cancer syndrome resulting from mutated retroviral-derived MTAP transcripts. Am. J. Hum. Genet. 90: 614-627, 2012.

NCBI AND UNIPROT INFORMATION

NCBI GI #	47132622
NCBI GeneID	4507
NCBI Accession #	NP_002442
NCBI GenBank Nucleotide #	NM_002451
UniProt Accession #	Q13126; Q5T3P3; Q9H010; I2G7M5; I2G7M6; I2G7M7; I2G7M8; I2G7M9; I2G7N0
Molecular Weight	26,278 Da
NCBI Official Full Name	S-methyl-5'-thioadenosine phosphorylase
NCBI Official Synonym Full Names	methylthioadenosine phosphorylase
NCBI Official Symbol	MTAP
NCBI Official Synonym Symbols	BDMF; MSAP; DMSFH; LGMBF; DMSMFH; c86fus; HEL-249
NCBI Protein Information	S-methyl-5'-thioadenosine phosphorylase; 5'-methylthioadenosine phosphorylase; MTA phosphorylase; MTAP; MTAPase; MeSAdo phosphorylase; epididymis luminal protein 249
UniProt Protein Name	S-methyl-5'-thioadenosine phosphorylase

UniProt Gene Name	MTAP
UniProt Entry Name	MTAP_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/mtap-antibody-flow-cytometry-immunofluorescence-immunocytochemistry-western-blot-elisa/127300>