

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

Anti-MMACHC Antibody Picoband

CATALOG # AAA127174	HOST Rabbit	REACTIVITY Human	APPLICATIONS ELISA, Flow Cytometry, Functional Assay, Western Blot
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PRODUCT SYNONYMS

MMACHC; Polyclonal Antibody; Anti-MMACHC Antibody Picoband; group specific component ; Vitamin D-binding protein; DBP; VDB; Gc-globulin; Group-specific component; Gc; anti-MMACHC antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
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-MMACHC antibody	ELISA, FCM/FACS (Flow Cytometry), WB (Western Blot)
Immunogen	E coli-derived human MMACHC recombinant protein (Position: M1-K242).
Subcellular Localization	Secreted
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	Involved in vitamin D transport and storage, scavenging of extracellular G-actin, enhancement of the chemotactic activity of C5 alpha for neutrophils in inflammation and macrophage activation.
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.



FCM/FACS (Flow Cytometry)
Figure 2. Flow Cytometry analysis of JK cells using anti-MMACHC antibody (AAA127174). Overlay histogram showing JK cells stained with AAA127174 (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-MMACHC Antibody (AAA127174, 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.



WB (Western Blot)
Figure 1. Western blot analysis of MMACHC using anti-MMACHC antibody (AAA127174). 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 HepG2 whole cell lysates, Lane 2: human K562 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-MMACHC antigen affinity purified polyclonal antibody (#AAA127174) 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 MMACHC at approximately 32 kDa. The expected band size for MMACHC is at 32 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-MMACHC 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-MMACHC antibody	Primary Antibodies; Actin Binding Proteins; Actin, etc.; Cancer; Cytoskeleton; Cytoskeleton/ECM; Microfilaments ; Signal Transduction; Tumor Antigens; Tumor Biomarkers; Tumor Immunology; Tumor-Associated Antigens
References	1. Ben-Omran, T. I., Wong, H., Blaser, S., Feigenbaum, A. Late-onset cobalamin-C disorder: a challenging diagnosis. Am. J. Med. Genet. 143A: 979-984, 2007. 2. Bodamer, O. A. F., Rosenblatt, D. S., Appel, S. H., Beaudet, A. L. Adult-onset combined methylmalonic aciduria and homocystinuria (cblC). Neurology 56: 1113 only, 2001. 3. Collison, F. T., Xie, Y., Gambin, T., Jhangiani, S., Muzny, D., Gibbs, R., Lupski, J. R., Fishman, G. A., Allikmets, R. Whole exome sequencing identifies an adult-onset case of methylmalonic aciduria and homocystinuria type C (cblC) with non-syndromic bull's eye maculopathy. Ophthalm. Genet. 36: 270-275, 2015.

NCBI AND UNIPROT INFORMATION

NCBI GI #	153070822
NCBI GeneID	25974
NCBI Accession #	NP_056321.2
NCBI GenBank Nucleotide #	NM_015506.2
UniProt Accession #	Q9Y4U1; Q5T157; Q9BRQ7
Molecular Weight	31,728 Da
NCBI Official Full Name	methylmalonic aciduria and homocystinuria type C protein
NCBI Official Synonym Full Names	methylmalonic aciduria (cobalamin deficiency) cblC type, with homocystinuria
NCBI Official Symbol	MMACHC
NCBI Official Synonym Symbols	cblC
NCBI Protein Information	methylmalonic aciduria and homocystinuria type C protein
UniProt Protein Name	Methylmalonic aciduria and homocystinuria type C protein
UniProt Gene Name	MMACHC
UniProt Entry Name	MMAC_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/mmachc-antibody-flow-cytometry-western-blot-elisa/127174>