

Rabbit GANP/MCM3AP Polyclonal Antibody | anti-GANP/MCM3AP antibody

Anti-GANP/MCM3AP Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127299	Rabbit	Human, Mouse, Rat	ELISA, Flow Cytometry, Functional Assay, Immunofluorescence, Immunocytochemistry, Western Blot

PRODUCT SYNONYMS

GANP/MCM3AP; Polyclonal Antibody; Anti-GANP/MCM3AP Antibody Picoband; Serine/threonine-protein kinase AtPK1/AtPK6; 70 kDa ribosomal protein S6 kinase 1 antibody; KS6B1_HUMAN antibody; p70 alpha antibody; P70 beta 1 antibody; p70 ribosomal S6 kinase alpha antibody; p70 ribosomal S6 kinase beta 1 antibody; p70 S6 kinase alpha antibody; P70 S6 Kinase antibody; p70 S6 kinase alpha 1 antibody; p70 S6 kinase alpha 2 antibody; p70 S6K antibody; p70 S6K-alpha antibody; p70 S6KA antibody; p70(S6K) alpha antibody; p70(S6K)-alpha antibody; p70-alpha antibody; p70-S6K 1 antibody; p70-S6K antibody; P70S6K antibody; P70S6K1 antibody; p70S6Kb antibody; PS6K antibody; Ribosomal protein S6 kinase 70kDa polypeptide 1 antibody; Ribosomal protein S6 kinase beta 1 antibody; Ribosomal protein S6 kinase beta-1 antibody; Ribosomal protein S6 kinase I antibody; RPS6KB1 antibody; S6K antibody; S6K-beta-1 antibody; S6K1 antibody; Serine/threonine kinase 14 alpha antibody; Serine/threonine-protein kinase 14A antibody; STK14A antibody; anti-GANP/MCM3AP antibody

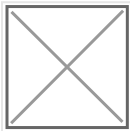
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	Expressed in all tissues.
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-GANP/MCM3AP antibody	ELISA, FCM/FACS (Flow Cytometry), IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Immunogen	E coli-derived human GANP/MCM3AP recombinant protein (Position: R1275-H1715). Human MCM3AP shares 80.9% amino acid (aa) sequence identity with mouse MCM3AP.
Subcellular Localization	Cytoplasm, Nucleus
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	Downstream effector of TOR signaling pathway involved in osmotic stress response. Could be involved in the control of plant growth and development. Phosphorylates the ribosomal proteins P14, P16 and S6. Functions as a repressor of cell proliferation and required for maintenance of chromosome stability and ploidy levels through the RBR1-E2F pathway.
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 3. Flow Cytometry analysis of HEL cells using anti-GANP/MCM3AP antibody (AAA127299).Overlay histogram showing HEL cells stained with AAA127299 (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-GANP/MCM3AP Antibody (AAA127299, 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 GANP/MCM3AP using anti-GANP/MCM3AP antibody (AAA127299).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 HEL whole cell lysates,Lane 2: human K562 whole cell lysates,Lane 3: human PC-3 whole cell lysates,Lane 4: human RT4 whole cell lysates,Lane 5: rat PC-12 whole cell lysates,Lane 6: rat C6 whole cell lysates,Lane 7: mouse RAW264.7 whole cell lysates,Lane 8: mouse NIH/3T3 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-GANP/MCM3AP antigen affinity purified polyclonal antibody (#AAA127299) 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 GANP/MCM3AP at approximately 218 kDa. The expected band size for GANP/MCM3AP is at 218 kDa.



IF (Immunofluorescence)

Figure 2. IF analysis of GANP/MCM3AP using anti-GANP/MCM3AP antibody (AAA127299) and anti-Beta Tubulin antibody (M01857-3).GANP/MCM3AP was detected in immunocytochemical section of HELA cell. 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-GANP/MCM3AP Antibody (AAA127299) and mouse anti-Beta Tubulin antibody (M01857-3) overnight at 4 degree C. DyLight488 Conjugated Goat Anti-Rabbit IgG and Cy3 Conjugated Goat Anti-Mouse IgG (BA1031) were used as secondary antibody at 1:500 dilution and incubated for 30 minutes at 37 degree C. Visualize using a fluorescence microscope and filter sets appropriate for the label used.

ADDITIONAL INFORMATION

Related Product Information for anti-GANP/MCM3AP 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-GANP/MCM3AP antibody	Primary Antibodies; Signal Transduction; Signaling Pathway; Small G Proteins
References	1. Abe, E., Kuwahara, K., Yoshida, M., Suzuki, M., Terasaki, H., Matsuo, Y., Takahashi, E., Sakaguchi, N. Structure, expression, and chromosomal localization of the human gene encoding a germinal center-associated nuclear protein (GANP) that associates with MCM3 involved in the initiation of DNA replication. Gene 255: 219-227, 2000.2. Karakaya, M., Mazaheri, N., Polat, I., Bharucha-Goebel, D., Donkervoort, S., Maroofian, R., Shariati, G., Hoelker, I., Monaghan, K., Winchester, S., Zori, R., Galehdari, H., Bonnemann, C. G., Yis, U., Wirth, B. Biallelic MCM3AP mutations cause Charcot-Marie-Tooth neuropathy with variable clinical presentation. (Letter) Brain 140: e65, 2017. Note: Electronic Article. 3. Kennerson, M. L., Corbett, A. C., Ellis, M., Perez-Siles, G., Nicholson, G. A. A novel MCM3AP mutation in a Lebanese family with recessive Charcot-Marie-Tooth neuropathy. (Letter) Brain 141: e66, 2018. Note: Electronic Article.

NCBI AND UNIPROT INFORMATION

NCBI GI #	19923191
NCBI GeneID	8888
NCBI Accession #	NP_003897.2
NCBI GenBank Nucleotide #	NM_003906.3

UniProt Accession #	O60318 ; Q2M3C1 ; Q9UMT4
Molecular Weight	218,405 Da
NCBI Official Full Name	80 kDa MCM3-associated protein
NCBI Official Synonym Full Names	minichromosome maintenance complex component 3 associated protein
NCBI Official Symbol	MCM3AP
NCBI Official Synonym Symbols	GANP; SAC3; MAP80
NCBI Protein Information	80 kDa MCM3-associated protein; MCM3 import protein; germinal center-associated nuclear protein; germinal-centre associated nuclear protein; minichromosome maintenance deficient 3-associated protein; MCM3 minichromosome maintenance deficient 3 associated
UniProt Protein Name	80 kDa MCM3-associated protein
UniProt Gene Name	MCM3AP
UniProt Synonym Gene Names	GANP; KIAA0572; MAP80
UniProt Entry Name	MCM3A_HUMAN

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AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://stage.aaabiotech.com/polyclonal/ganp-mcm3ap-antibody-flow-cytometry-immunofluorescence-immunocytochemistry-western-blot-elisa/127299>