

Rabbit anti-Human, Mouse GANP Polyclonal Antibody | anti-GANP antibody

GANP Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA320810	Rabbit	Human, Mouse	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

GANP; Polyclonal Antibody; GANP Antibody; 80 kDa MCM3 associated protein; 80 kDa MCM3-associated protein; FLJ44336; FLJ45306; Germinal center associated nuclear protein; KIAA0572; MAP80; MCM3 import protein; MCM3 minichromosome maintenance deficient 3 associated protein; MCM3A; MCM3A_HUMAN; MCM3ap; Minichromosome maintenance complex component 3 associated protein; Minichromosome maintenance deficient 3 associated protein; Minichromosome maintenance protein 3 associated protein; Protein GANP; SAC3; anti-GANP antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Isotype	IgG
Specificity	GANP antibody detects endogenous levels of total GANP
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	1980
Applicable Applications for anti-GANP antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human GANP
Subcellular Location	Cytoplasm. Nucleus.
Predicted Cross Reactivity	Pig, Bovine, Horse, Sheep, Rabbit, Dog
Similarity	Pig (80%), Bovine (90%), Horse (90%), Sheep (90%), Rabbit (80%), Dog (80%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohistochemistry)

AAA320810 at 1/100 staining human Testis tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



IF (Immunofluorescence)

AAA320810 staining NIH-3T3 by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.

**WB (Western Blot)**

Western blot analysis on NIH-3T3 cell lysate using GANP Antibody. The lane on the left is treated with the antigen-specific peptide.

**WB (Western Blot)**

Western blot analysis on mouse muscle lysate using GANP Antibody

ADDITIONAL INFORMATION

Related Product Information for anti-GANP antibody

Description: GANP is a member of the SAC3 family of nuclear export factors. In combination with ENY2, PCID2 and centrins, forms the TREX-2 complex that links transcription/processing with nuclear mRNA export. GANP, required to recruit ENY2 to nuclear pore complexes (NPCs), requires both its CID and MCM3AP domains, together with nucleoporin Nup153, for recruitment to NPCs. The MCM3AP domain, corresponding to the carboxy-terminal 721 amino acids of GANP, shows homology with the Gcn5-related N acetyltransferase superfamily. The protein MCM3AP is encoded entirely within the 3' region of the GANP gene. MCM3AP transcription begins within intron 16 of GANP immediately upstream of the first MCM3AP exon, where NF-IL6, AP-1, NF-?B, and p53 consensus transcription factor binding sites are located.

Function: Isoform GANP: Essential for the generation of high-affinity B-cells against T-cell-dependent antigens by affecting somatic hypermutation at the IgV-regions. May have stimulation-dependent DNA primase activity that would generate extra RNA primers in very rapidly proliferating cells and would support clonal expansion of differentiating B-cells (By similarity). Involved in the nuclear export of poly(A)-containing mRNAs by acting as a scaffold for the TREX-2 complex. The TREX-2 complex functions in docking export-competent ribonucleoprotein particles (mRNPs) to the nuclear entrance of the nuclear pore complex (nuclear basket). TREX-2 participates in mRNA export and accurate chromatin positioning in the nucleus by tethering genes to the nuclear periphery. Subunit Structure: Interacts with AICDA/AID (By similarity). Component of the nuclear pore complex (NPC)-associated TREX-2 complex (transcription and export complex 2), composed of at least GANP, two copies of ENY2, PCID2, SEM1, and either centrin CETN2 or CETN3. Isoform MCM3AP interacts with MCM3. Interacts with NXF1 (By via FG-repeats).

Post-translational Modifications: Phosphorylation at Ser-508 by CDKs is required for DNA primase activity.

Similarity: Belongs to the SAC3 family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	19923191
NCBI GeneID	8888
NCBI Accession #	NP_003897.2
NCBI GenBank Nucleotide #	NM_003906.4
UniProt Accession #	O60318 ; Q2M3C1 ; Q6PJP6 ; Q9BSY5 ; Q9UMT4 ; C9JL56
Molecular Weight	Observed: 218 kDa Predicted: 219 kDa
NCBI Official Full Name	germinal-center associated nuclear protein
NCBI Official Synonym Full Names	minichromosome maintenance complex component 3 associated protein
NCBI Official Symbol	MCM3AP
NCBI Official Synonym Symbols	GANP; SAC3; MAP80; PNRIID
NCBI Protein Information	germinal-center associated nuclear protein
UniProt Protein Name	Germinal-center associated nuclear protein
UniProt Gene Name	MCM3AP
UniProt Synonym Gene Names	GANP; KIAA0572; MAP80; GANP; MCM3AP

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/ganp-antibody-immunocytochemistry-immunofluorescence-immunohistochemistry-western-blot-elisa/320810>