

Anti-GANP Antibody
Catalog # AP53715**Specification**

Anti-GANP Antibody - Product Information

Application	WB, IHC
Primary Accession	O60318
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	218405

Anti-GANP Antibody - Additional Information**Gene ID** 8888**Other Names**GANP; KIAA0572; MAP80; Germinal-center associated nuclear protein; GANP; 80 kDa
MCM3-associated protein; MCM3 acetylating protein; MCM3AP; MCM3 acetyltransferase**Target/Specificity**

Recognizes endogenous levels of GANP protein.

Dilution

WB~~1/500 - 1/1000

IHC~~1:100~500

Format

Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.

Storage

Store at -20 °C. Stable for 12 months from date of receipt

Anti-GANP Antibody - Protein Information**Name** MCM3AP**Synonyms** GANP, KIAA0572, MAP80**Function**

[Isoform GANP]: As a component of the TREX-2 complex, involved in the export of mRNAs to the cytoplasm through the nuclear pores (PubMed:20005110, PubMed:20384790, PubMed:22307388, PubMed:23591820). Through the acetylation of histones, affects the assembly of nucleosomes at immunoglobulin variable region

genes and promotes the recruitment and positioning of transcription complex to favor DNA cytosine deaminase AICDA/AID targeting, hence promoting somatic hypermutations (PubMed:23652018).

Cellular Location

[Isoform GANP]: Nucleus envelope. Nucleus, nuclear pore complex. Nucleus, nucleoplasm. Chromosome. Note=Predominantly located at the nuclear envelope, facing the nucleus interior (PubMed:20005110, PubMed:21195085, PubMed:23591820). Localization at the nuclear pore complex requires NUP153, TPR and ALYREF/ALY (PubMed:22307388, PubMed:23591820). Also found associated with chromatin (PubMed:23652018). In B-cells, targeted to the immunoglobulin variable region genes (PubMed:23652018).

Tissue Location

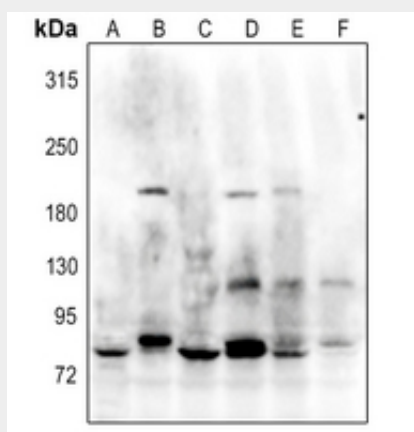
Widely expressed (PubMed:11024281). Up-regulated in germinal center B-cells in tonsils (at protein level) (PubMed:11024281).

Anti-GANP Antibody - Protocols

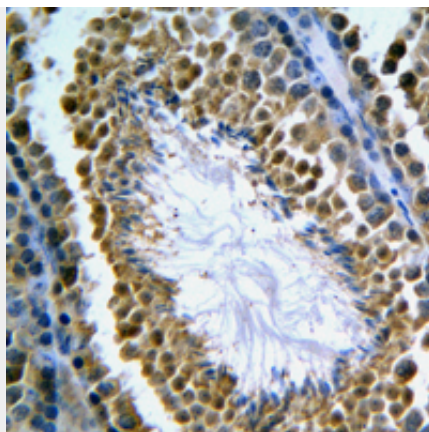
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-GANP Antibody - Images



Western blot analysis of GANP expression in rat testis (A), CT26 (B), SKOVCA3 (C), HCT116 (D), HEK293T (E), HCC827 (F) whole cell lysates.



Immunohistochemical analysis of GANP staining in human tonsil formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

Anti-GANP Antibody - Background

Rabbit polyclonal antibody to GANP