

Anti-GANP Antibody

Catalog # AP53715

Product Information

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

Additional Information

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|--------------------|---|
| 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 |
| 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 |

Protein Information

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|-------------------|--|
| 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).

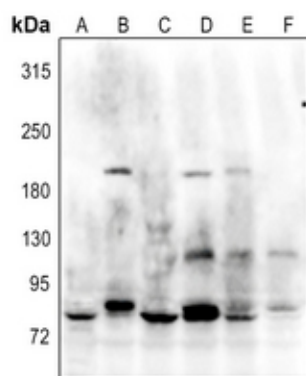
Tissue Location

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

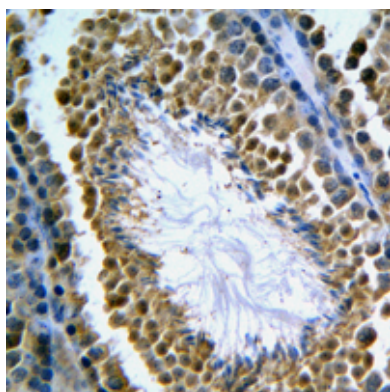
Background

Rabbit polyclonal antibody to GANP

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.

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