

GANP Polyclonal Antibody

Catalog No :	YT1847
Reactivity :	Human;Mouse
Applications :	WB;IHC;IF;ELISA
Target :	GANP
Gene Name :	MCM3AP
Protein Name :	80 kDa MCM3-associated protein
Human Gene Id :	8888
Human Swiss Prot No :	O60318
Mouse Gene Id :	54387
Mouse Swiss Prot No :	Q9WUU9
Immunogen :	The antiserum was produced against synthesized peptide derived from human GANP. AA range:1841-1890
Specificity :	GANP Polyclonal Antibody detects endogenous levels of GANP protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:40000.. IF 1:50-200
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration :	1 mg/ml
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band : 218kD

Cell Pathway : Protein_Acetylation

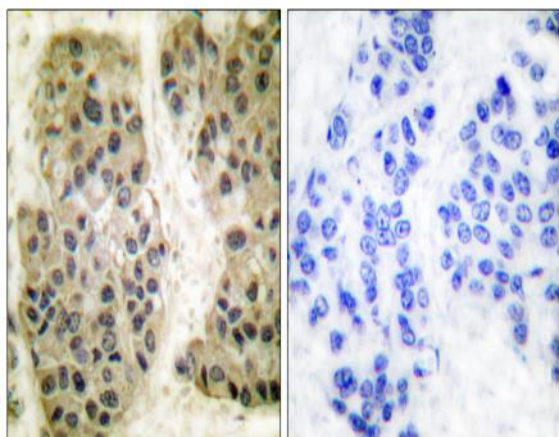
Background : The minichromosome maintenance protein 3 (MCM3) is one of the MCM proteins essential for the initiation of DNA replication. The protein encoded by this gene is a MCM3 binding protein. It was reported to have phosphorylation-dependent DNA-primase activity, which was up-regulated in antigen immunization induced germinal center. This protein was demonstrated to be an acetyltransferase that acetylates MCM3 and plays a role in DNA replication. The mutagenesis of a nuclear localization signal of MCM3 affects the binding of this protein with MCM3, suggesting that this protein may also facilitate MCM3 nuclear localization. This gene is expressed in the brain or in neuronal tissue. An allelic variant encoding amino acid Lys at 915, instead of conserved Glu, has been identified in patients with mild intellectual disability. [provided by RefSeq, Jan 2014],

Function : function:May be involved in the nuclear localization pathway of MCM3.,similarity:Belongs to the SAC3 family.,subunit:Interacts with MCM3.,

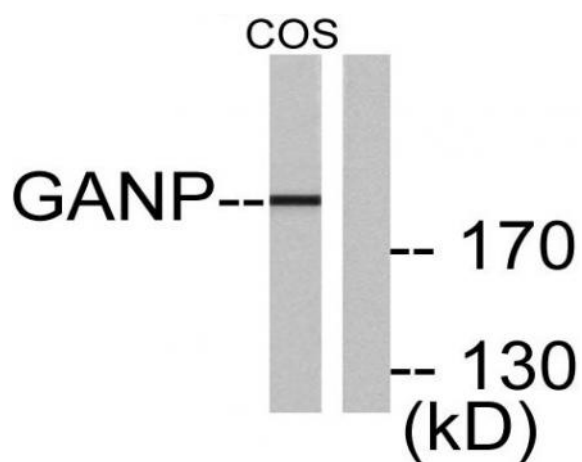
Subcellular Location : [Isoform GANP]: Nucleus envelope . Nucleus, nuclear pore complex . Nucleus, nucleoplasm . Chromosome . Predominantly located at the nuclear envelope, facing the nucleus interior (PubMed:20005110, PubMed:21195085, PubMed:23591820). Localization at the nuclear pore complex requires NUP153, TPR and ALYREF/ALY (PubMed:23591820, PubMed:22307388). Also found associated with chromatin (PubMed:23652018). In B-cells, targeted to the immunoglobulin variable region genes (PubMed:23652018). .; [Isoform MCM3AP]: Cytoplasm . Nucleus . Translocates into the nucleus in the presence of MCM3 (PubMed:12226073). Associates with chromatin possibly through interaction with MCM3 (PubMed:12226073). .

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

Products Images



Immunohistochemistry analysis of paraffin-embedded human breast carcinoma tissue, using GANP Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from COS7 cells, using GANP Antibody. The lane on the right is blocked with the synthesized peptide.