For Research Use Only

GANP Polyclonal antibody

Catalog Number:11054-1-AP Featured Product 4 Publications

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Basic Information

Catalog Number:
11054-1-AP

Size:
150ul , Concentration: 850 ug/ml by Nanodrop and 340 ug/ml by Bradford method using BSA as the standard;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG1486

GenBank Accession Number:
BC013285

GeneID (NCBI):
8888

UNIPROT ID:
O60318

Full Name:
minichromosome maintenance complex component 3 associated protein

Calculated MW:
218 kDa

Observed MW:
75-80 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:200-1:1000
IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IHC 1:10-1:100
IF/ICC 1:20-1:200

Applications

Tested Applications:
WB, IHC, IF/ICC, FC (Intra), IP, ELISA

Cited Applications:
WB, IF

Species Specificity:
human, mouse, rat

Cited Species:
human, monkey

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : mouse brain tissue, NIH/3T3 cells

IP : mouse brain tissue,

IHC : human colon cancer tissue,

IF/ICC : HepG2 cells,

Background Information

The minichromosome maintenance protein 3 (MCM3) is one of the MCM proteins essential for the initiation of DNA replication. MCM3AP is MCM3 associated protein, and it has phosphorylation-dependent DNA-primase activity, which was up-regulated in antigen immunization induced germinal center. The mutagenesis of a nuclear localization signal of MCM3 affects the binding of this protein with MCM3, suggesting that MCM3AP may also facilitate MCM3 nuclear localization. Besides, MCM3AP is an acetyltransferase cotaining putative acetyl CoA binding motifs conserved within the GCN5-related N-acetyltransferase superfamily.

Notable Publications

Author	Pubmed ID	Journal	Application
Maeda Kazuhiko K	20507984	J Biol Chem	WB,IF
Chunqing Yang	29375300	Front Mol Neurosci	WB
Singh Shailendra Kumar SK	23652018	Nat Commun	WB

Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
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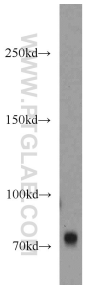
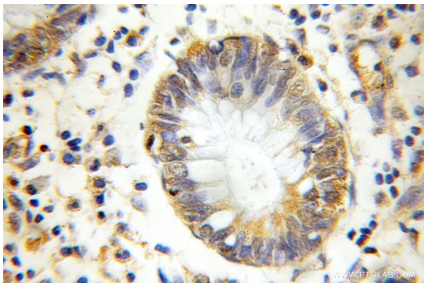
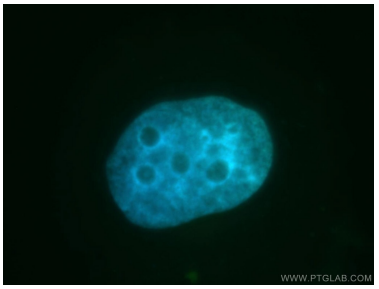
Selected Validation Data



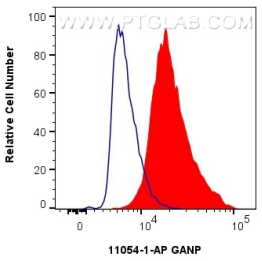
mouse brain tissue were subjected to SDS PAGE followed by western blot with 11054-1-AP (GANP antibody) at dilution of 1:300 incubated at room temperature for 1.5 hours.



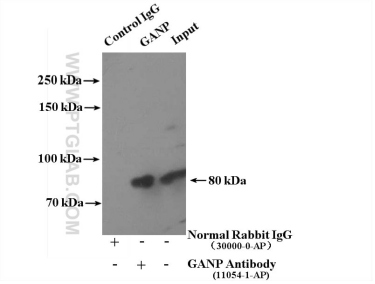
Immunohistochemical analysis of paraffin-embedded human colon cancer using 11054-1-AP (GANP antibody) at dilution of 1:10 (under 10x lens).



Immunofluorescent analysis of HepG2 cells, using MCM3AP antibody 11054-1-AP at 1:100 dilution and FITC-labeled donkey anti-rabbit IgG(green). Blue pseudocolor = DAPI (fluorescent DNA dye).



1x10^6 HepG2 cells were intracellularly stained with 0.4 ug GANP Polyclonal antibody (11054-1-AP) and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.4 ug Rabbit IgG control Rabbit PolyAb (30000-0-AP) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



IP result of anti-GANP (IP:11054-1-AP, 4ug; Detection:11054-1-AP 1:500) with mouse brain tissue lysate 4000ug.