For Research Use Only

MCM6 Polyclonal antibody

Catalog Number:13347-2-AP Featured Product 21 Publications

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Basic Information

Catalog Number:
13347-2-AP

Size:
800 μg/ml

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG4180

GenBank Accession Number:
BC032374

GeneID (NCBI):
4175

UNIPROT ID:
Q14566

Full Name:
minichromosome maintenance complex component 6

Calculated MW:
821 aa, 93 kDa

Observed MW:
105 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:2000-1:16000
IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IHC 1:50-1:500
IF 1:200-1:800

Applications

Tested Applications:
IF/ICC, IHC, IP, WB, ELISA

Cited Applications:
WB, IF, IHC

Species Specificity:
human, mouse, rat

Cited Species:
human, mouse

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 : COLO 320 cells, HeLa cells, mouse ovary tissue, mouse thymus tissue, mouse spleen tissue

IP : HeLa cells,

IHC : human cervical cancer tissue, human lung cancer tissue

IF : HeLa cells,

Background Information

The MCM genes were firstly identified in yeast defective in minichromosome maintenance and have since been shown to have roles in the progression of the cell cycle, and most of them are cell division control genes[PMID: 18096807]. MCM2-7 complex are suggested to be 'DNA licensing factors' which bind to the DNA after mitosis and enable DNA replication before being removed during S phase. Mini-chromosome maintenance 6 (MCM6) is one component of the MCM2-7 complex which is the putative replicative helicase essential for 'once per cell cycle' DNA replication initiation and elongation in eukaryotic cells[PMID: 9305914]. MCM6 single subunit forms homohexamer and contains an ATP-dependent and replication fork stimulated 3' to 5' DNA unwinding activity along with intrinsic DNA-dependent ATPase and ATP-binding activities [PMID:21336027]. The calculated molecular weight of MCM6 is 92 kDa, but the modified MCM6 is about 105 kDa.

Notable Publications

Author	Pubmed ID	Journal	Application
Qing Yuan	25378924	Int J Nanomedicine	WB
Yi-Zhen Liu	29151950	J Cancer	IHC
Minhong Shen	35121987	Nat Cancer	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

For technical support and original validation data for this product please contact:
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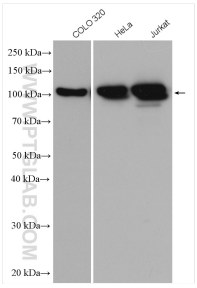
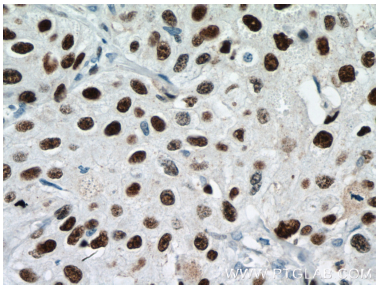
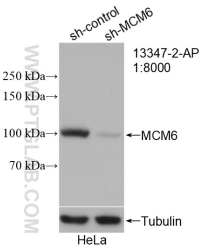
Selected Validation Data



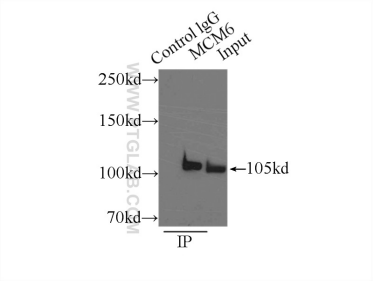
COLO 320 cells were subjected to SDS PAGE followed by western blot with 13347-2-AP (MCM6 antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



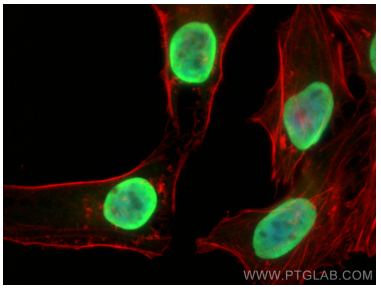
Immunohistochemical analysis of paraffin-embedded human cervical cancer tissue slide using 13347-2-AP (MCM6 antibody) at dilution of 1:200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



WB result of MCM6 antibody (13347-2-AP; 1:8000; incubated at room temperature for 1.5 hours) with sh-Control and sh-MCM6 transfected HeLa cells.



IP result of anti-MCM6 (IP:13347-2-AP, 3ug; Detection:13347-2-AP 1:1000) with HeLa cells lysate 3800ug.



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using MCM6 antibody (13347-2-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-phalloidin (red).