

For Research Use Only

# MCM3 Polyclonal antibody

Catalog Number:15597-1-AP

Featured Product

19 Publications



## Basic Information

**Catalog Number:**

15597-1-AP

**Size:**

150ul , Concentration: 450 ug/ml by Nanodrop and 333 ug/ml by Bradford method using BSA as the standard;

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG7966

**GenBank Accession Number:**

BC001626

**GeneID (NCBI):**

4172

**UNIPROT ID:**

P25205

**Full Name:**

minichromosome maintenance complex component 3

**Calculated MW:**

91 kDa

**Observed MW:**

102-105 kDa

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

WB 1:1000-1:4000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:1000-1:4000

## Applications

**Tested Applications:**

WB, IHC, IP, ELISA

**Cited Applications:**

WB, IHC

**Species Specificity:**

human, mouse, rat

**Cited Species:**

human, mouse, rat

**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 : K-562 cells, Raji cells, HeLa cells

IP : HeLa cells,

IHC : human colon cancer tissue,

## Background Information

MCM3, also named as HCC5, P1-MCM3, p102, RLF subunit beta and RLFB, belongs to the MCM family. MCM3 is essential for the initiation of DNA replication and is involved in ensuring that DNA replication is initiated precisely once per cell cycle(PMID: 33093917). MCM3 has 2 isoforms with the molecular mass of 91 and 96 kDa. The overexpression of MCM3 is related to proliferation of tumor cells(PMID: 31186514).

## Notable Publications

Author	Pubmed ID	Journal	Application
Qing-Liang Wen	31949617	Int J Clin Exp Pathol	IHC
Hongyuan Song	29908342	Biomaterials	WB
Lu Yan	31413757	J 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

\*\*\* 20ul sizes contain 0.1% BSA

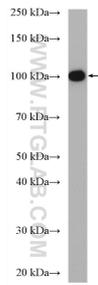
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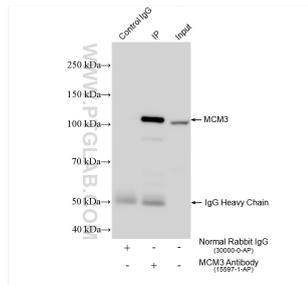
E: proteintech@ptglab.com  
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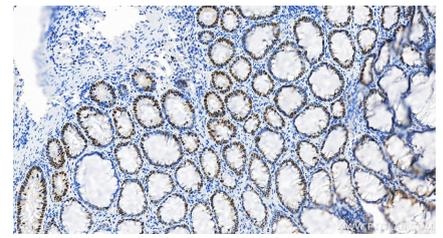
## Selected Validation Data



K-562 cells were subjected to SDS PAGE followed by western blot with 15597-1-AP (MCM3 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



IP result of anti-MCM3 (IP:15597-1-AP, 4ug; Detection:15597-1-AP 1:6000) with HeLa cells lysate 1280 ug.



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 15597-1-AP (MCM3 antibody) at dilution of 1:2000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).