

For Research Use Only

MCM3 Polyclonal antibody

Catalog Number: 15597-1-AP

Featured Product

15 Publications



Basic Information

Catalog Number: 15597-1-AP	GenBank Accession Number: BC001626	Purification Method: Antigen affinity purification
Size: 150ul, Concentration: 450 µg/ml by Nanodrop and 180 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 4172	Recommended Dilutions: WB 1:1000-1:4000 IP 0.5-4.0 ug for IP and 1:500-1:1000 for WB IHC 1:800-1:3200
Source: Rabbit	Full Name: minichromosome maintenance complex component 3	
Isotype: IgG	Calculated MW: 91 kDa	
Immunogen Catalog Number: AG7966	Observed MW: 102-105 kDa	

Applications

Tested Applications: IHC, IP, WB, ELISA	Positive Controls: WB : K-562 cells, Raji cells, HeLa cells IP : HeLa cells, IHC : human colon cancer tissue,
Cited Applications: IHC, WB	
Species Specificity: human, mouse, rat	
Cited Species: human, rat, mouse	
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	

Background Information

MCM3, also named as HCC5, P1-MCM3, p102, RLF subunit beta and RLFβ, 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

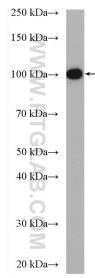
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

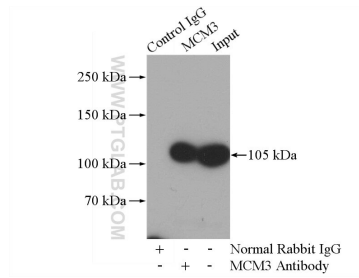
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

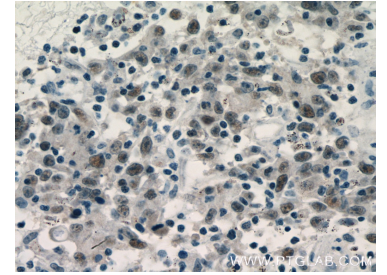
Selected Validation Data



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 1:500) with HeLa cells lysate 1400ug.



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 15597-1-AP (MCM3 antibody) at dilution of 1:1600 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).