

For Research Use Only

# MCM4 Polyclonal antibody

Catalog Number: 13043-1-AP

11 Publications



## Basic Information

<b>Catalog Number:</b> 13043-1-AP	<b>GenBank Accession Number:</b> BC031061	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 350 µg/ml by Nanodrop and 267 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 4173	<b>Recommended Dilutions:</b> WB 1:500-1:3000 IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate IHC 1:1000-1:4000
<b>Source:</b> Rabbit	<b>Full Name:</b> minichromosome maintenance complex component 4	
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 863 aa, 97 kDa	
<b>Immunogen Catalog Number:</b> AG3703	<b>Observed MW:</b> 97 kDa	

## Applications

<b>Tested Applications:</b> IHC, IP, WB, ELISA	<b>Positive Controls:</b> WB : HeLa cells, HEK-293 cells, HL-60 cells, human liver tissue IP : HEK-293 cells, IHC : human colon cancer tissue, mouse testis tissue, rat colon tissue
<b>Cited Applications:</b> WB	
<b>Species Specificity:</b> human	
<b>Cited Species:</b> human, mouse	
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## Background Information

DNA replication licensing factor MCM4 (MCM4), also named Cdc21, acts as component of the MCM2-7 complex (MCM complex) which is the putative replicative helicase essential for 'once per cell cycle' DNA replication initiation and elongation in eukaryotic cells. The active ATPase sites in the MCM2-7 ring are formed through the interaction surfaces of two neighboring subunits such that a critical structure of a conserved arginine finger motif is provided in trans relative to the ATP-binding site of the Walker A box of the adjacent subunit. The six ATPase active sites, however, are likely to contribute differentially to the complex helicase activity. This antibody is a rabbit polyclonal antibody raised against the C-terminal 350 aa sequence of MCM4 protein.

## Notable Publications

Author	Pubmed ID	Journal	Application
Nathalie Eisenhardt	26524493	Nat Struct Mol Biol	WB
Hongyuan Song	29908342	Biomaterials	WB
Lu Yan	31413757	J Cancer	WB

## Storage

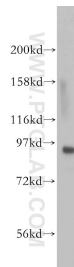
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

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

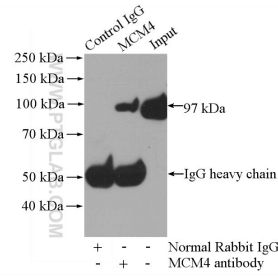
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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

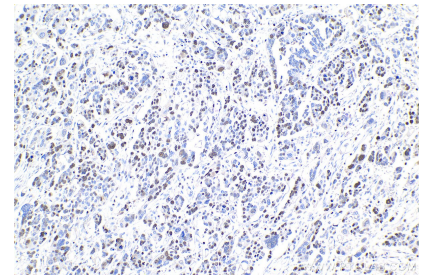
## Selected Validation Data



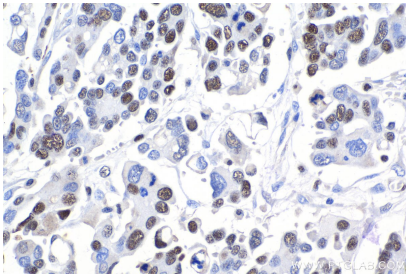
HeLa cells were subjected to SDS PAGE followed by western blot with 13043-1-AP (MCM4 antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



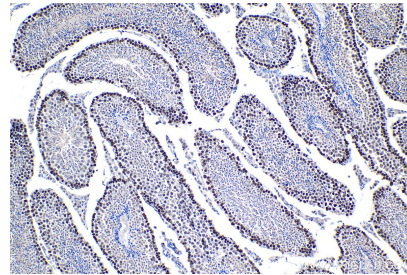
IP Result of anti-MCM4 (IP:13043-1-AP, 4ug; Detection:13043-1-AP 1:600) with HEK-293 cells lysate 1200ug.



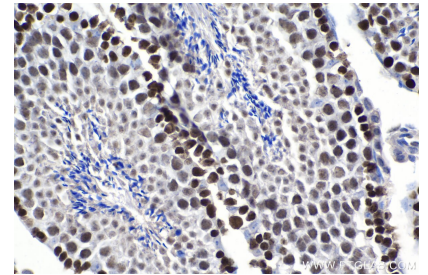
Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 13043-1-AP (MCM4 antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 13043-1-AP (MCM4 antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



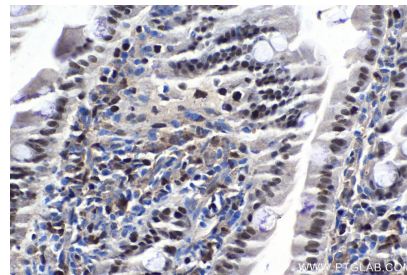
Immunohistochemical analysis of paraffin-embedded mouse testis tissue slide using 13043-1-AP (MCM4 antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse testis tissue slide using 13043-1-AP (MCM4 antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded rat colon tissue slide using 13043-1-AP (MCM4 antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded rat colon tissue slide using 13043-1-AP (MCM4 antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).