

MCM7 Polyclonal antibody

Catalog Number: 11225-1-AP

16 Publications

Basic Information

Catalog Number: 11225-1-AP	GenBank Accession Number: BC013375	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 400 µg/ml by Nanodrop and 267 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 4176	Recommended Dilutions: WB 1:5000-1:50000 IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate IHC 1:50-1:500 IF 1:50-1:500
Source: Rabbit	Full Name: minichromosome maintenance complex component 7	
Isotype: IgG	Calculated MW: 81 kDa	
Immunogen Catalog Number: AG1730	Observed MW: 81 kDa	

Applications

Tested Applications: FC, IF, IHC, IP, WB, ELISA	Positive Controls:
Cited Applications: CoIP, IHC, WB	WB : HeLa cells, MCF-7 cells, NIH/3T3 cells, Jurkat cells, K-562 cells
Species Specificity: human, mouse, rat	IP : NIH/3T3 cells,
Cited Species: human, mouse	IHC : human lung cancer tissue, human lymphoma tissue
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	IF : A431 cells,

Background Information

MCM7, also named as CDC47 homolog or P1.1-MCM3, is a 719 amino acid protein, which belongs to the MCM family. MCM7 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 MCM2-7 complex participates in the pre-replication complex formation and exhibits helicase activity which makes DNA unwind, and resulting in recruitment of DNA polymerases and initiation of DNA replication and elongation [PMID: 29463213]. An immunohistochemical study has shown that MCM7 is increased in HCC. Silencing of MCM7 with shRNA inhibits the malignant behavior of HCC cells via cell cycle arrest and apoptosis [[PMID: 29463213].

Notable Publications

Author	Pubmed ID	Journal	Application
Liangliang Cao	36133906	Front Mol Biosci	WB
Yi Zhu	30365225	Proteomics Clin Appl	IHC
Qing-Liang Wen	31949617	Int J Clin Exp Pathol	IHC

Storage

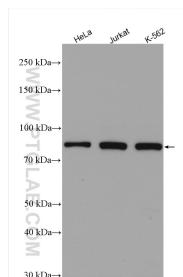
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
 Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

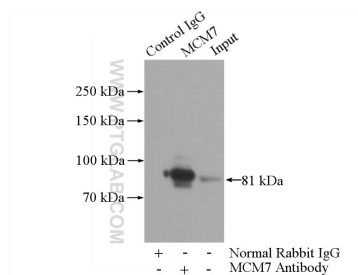
For technical support and original validation data for this product please contact:
 T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
 E: proteintech@ptglab.com
 W: ptglab.com

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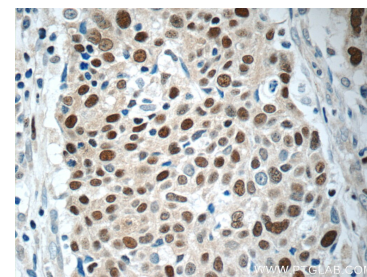
Selected Validation Data



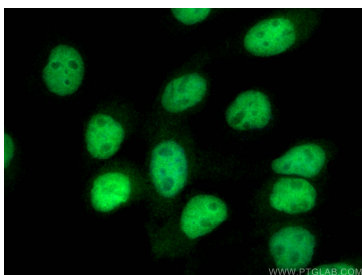
Various lysates were subjected to SDS PAGE followed by western blot with 11225-1-AP (MCM7 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



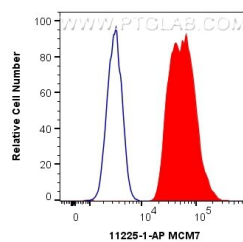
IP Result of anti-MCM7 (IP:11225-1-AP, 4ug; Detection:11225-1-AP 1:2000) with NIH/3T3 cells lysate 1600ug.



Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 11225-1-AP (MCM7 Antibody) at dilution of 1:200 (under 40x lens).



Immunofluorescent analysis of (4% PFA) fixed A431 cells using MCM7 antibody (11225-1-AP) at dilution of 1:200 and Coralite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



1X10⁶ HepG2 cells were intracellularly stained with 0.4 ug Anti-Human MCM7 (11225-1-AP) and Coralite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Isotype Control. Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).