

For Research Use Only

MCM2 Recombinant monoclonal antibody, PBS Only

Catalog Number: 84511-9-PBS



Basic Information

Catalog Number: 84511-9-PBS	GenBank Accession Number: BC007670	Purification Method: Protein A purification
Size: 100ug, Concentration: 1 mg/ml by Nanodrop;	GeneID (NCBI): 4171	CloneNo.: 241968C4
Source: Rabbit	UNIPROT ID: P49736	
Isotype: IgG	Full Name: minichromosome maintenance complex component 2	
Immunogen Catalog Number: AG0798	Calculated MW: 102 kDa	
	Observed MW: 116-125 kDa	

Applications

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

Species Specificity:
human, mouse, rat

Background Information

The MCM2-7 complex forms the core of the replicative helicase which acts as the molecular motor that uses ATP binding and hydrolysis to fuel the unwinding of double-stranded DNA at the replication fork in eukaryotes. This complex is the putative replicative helicase essential for 'once per cell cycle' DNA replication initiation and elongation in eukaryotic cells. MCM2, also named CDCL1 and BM28, is a human nuclear protein that plays an important role in 2 crucial steps of the cell cycle, namely, onset of DNA replication and cell division.

Storage

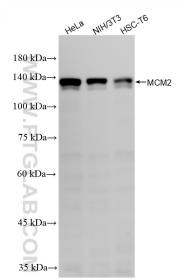
Storage:
Store at -80°C.

Storage Buffer:
PBS only, pH7.3

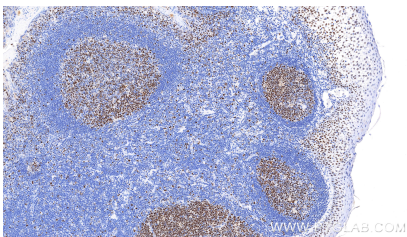
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

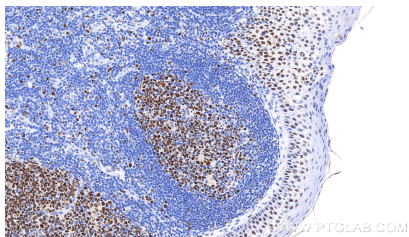
Selected Validation Data



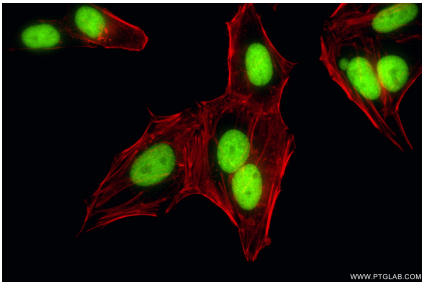
Various lysates were subjected to SDS PAGE followed by western blot with 84511-9-RR (MCM2 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 84511-9-PBS in a different storage buffer formulation.



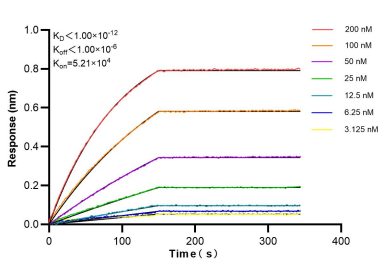
Immunohistochemical analysis of paraffin-embedded human tonsil tissue slide using 84511-9-RR (MCM2 antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 84511-9-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded human tonsil tissue slide using 84511-9-RR (MCM2 antibody) at dilution of 1:2000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 84511-9-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using MCM2 antibody (84511-9-RR, Clone: 241968C4) at dilution of 1:1000 and CoraLite@488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red). This data was developed using the same antibody clone with 84511-9-PBS in a different storage buffer formulation.



Biolayer interferometry (BLI) kinetic assays of 84511-9-RR against Human MCM2 were performed. The affinity constant is below 1 pM.