

For Research Use Only

# CoraLite®594-conjugated MCM7 Monoclonal antibody



Catalog Number:CL594-67446

## Basic Information

<b>Catalog Number:</b> CL594-67446	<b>GenBank Accession Number:</b> BC013375	<b>Purification Method:</b> Protein G purification
<b>Size:</b> 100ul , Concentration: 1000 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 4176	<b>CloneNo.:</b> 1G1F6
<b>Source:</b> Mouse	<b>Full Name:</b> minichromosome maintenance complex component 7	<b>Recommended Dilutions:</b> IF 1:50-1:500
<b>Isotype:</b> IgG1	<b>Calculated MW:</b> 81 kDa	<b>Excitation/Emission maxima wavelengths:</b> 593 nm / 614 nm
<b>Immunogen Catalog Number:</b> AG28558	<b>Observed MW:</b> 85 kDa	

## Applications

<b>Tested Applications:</b> IF	<b>Positive Controls:</b> IF : HepG2 cells,
<b>Species Specificity:</b> Human, mouse, rat	

## 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].

## Storage

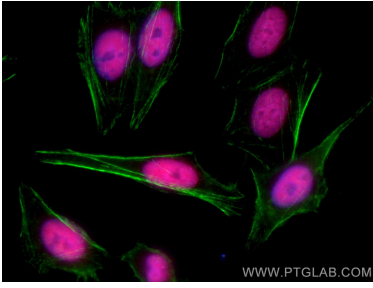
**Storage:**  
Store at -20°C. Avoid exposure to light.  
**Storage Buffer:**  
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 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



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using CoraLite@594 MCM7 antibody (CL594-67446, Clone: 1G1F6) at dilution of 1:200, CL488-Phalloidin (green).