

For Research Use Only

CoraLite®594-conjugated MCM6 Monoclonal antibody



Catalog Number:CL594-67989

Basic Information

Catalog Number: CL594-67989	GenBank Accession Number: BC032374	Purification Method: Protein G purification
Size: 100ul , Concentration: 1000 µg/ml by Nanodrop;	GeneID (NCBI): 4175	CloneNo.: 2E12H1
Source: Mouse	Full Name: minichromosome maintenance complex component 6	Excitation/Emission maxima wavelengths: 588 nm / 604 nm
Isotype: IgG1	Calculated MW: 821 aa, 93 kDa	
Immunogen Catalog Number: AG4354	Observed MW: 105 kDa	

Applications

Tested Applications:
FC (Intra)

Species Specificity:
Human, Rat, Mouse

Background Information

The MCM genes were firstly identified in yeast defective in minichromosome maintenance and have since been shown to have roles in the progression of the cell cycle, and most of them are cell division control genes[PMID: 18096807]. MCM2-7 complex are suggested to be 'DNA licensing factors' which bind to the DNA after mitosis and enable DNA replication before being removed during S phase. Mini-chromosome maintenance 6 (MCM6) is one component of the MCM2-7 complex which is the putative replicative helicase essential for 'once per cell cycle' DNA replication initiation and elongation in eukaryotic cells[PMID: 9305914]. MCM6 single subunit forms homohexamer and contains an ATP-dependent and replication fork stimulated 3' to 5' DNA unwinding activity along with intrinsic DNA-dependent ATPase and ATP-binding activities [PMID:21336027]. The calculated molecular weight of MCM6 is 92 kDa, but the modified MCM6 is about 105 kDa.

Storage

Storage:
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.

Storage Buffer:
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.

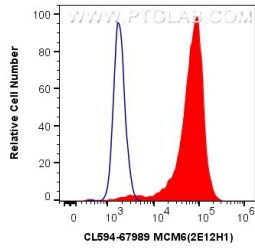
Aliquoting is unnecessary for -20°C storage

*** 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

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Selected Validation Data



1X10⁶ HepG2 cells were intracellularly stained with 0.4 ug CoraLite®594 Anti-Human MCM6 (CL594-67989, Clone:2E12H1) (red), or 0.4 ug Isotype Control. Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).