

# CoraLite®594-conjugated MCM6 Monoclonal antibody

Catalog Number: **CL594-67989**

## Basic Information

**Catalog Number:**

CL594-67989

**Size:**

1000 µg/ml

**Source:**

Mouse

**Isotype:**

IgG1

**Immunogen Catalog Number:**

AG4354

**GenBank Accession Number:**

BC032374

**GeneID (NCBI):**

4175

**UNIPROT ID:**

Q14566

**Full Name:**minichromosome maintenance  
complex component 6**Calculated MW:**

821 aa, 93 kDa

**Observed MW:**

105 kDa

**Purification Method:**

Protein G purification

**CloneNo.:**

2E12H1

**Recommended Dilutions:**

IF/ICC 1:50-1:500

**Excitation/Emission maxima  
wavelengths:**

588 nm / 604 nm

## Applications

**Tested Applications:**

IF/ICC, FC (Intra)

**Species Specificity:**

human, mouse, rat

**Positive Controls:**

IF/ICC : HepG2 cells,

## 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:**

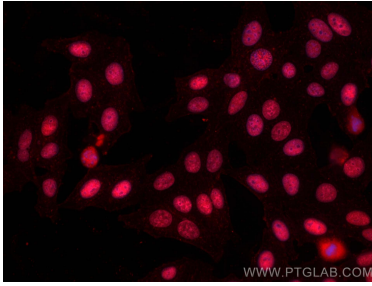
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.

**Storage Buffer:**

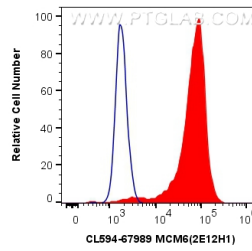
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.

Aliquoting is unnecessary for -20°C storage

## Selected Validation Data



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using CoraLite®594 MCM6 antibody (CL594-67989, Clone: 2E12H1 ) at dilution of 1:200.



1X10<sup>6</sup> 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).