

For Research Use Only

# CoraLite® Plus 488-conjugated MCM6 Polyclonal antibody

Catalog Number: CL488-13347

Featured Product



## Basic Information

Catalog Number:

CL488-13347

Size:

100ul, Concentration: 1000 ug/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG4180

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:

Antigen affinity purification

Recommended Dilutions:

IF/ICC 1:50-1:500

Excitation/Emission maxima wavelengths:

493 nm / 522 nm

## Applications

Tested Applications:

IF/ICC

Species Specificity:

human, mouse, rat

Positive Controls:

IF/ICC : HeLa 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

For technical support and original validation data for this product please contact:

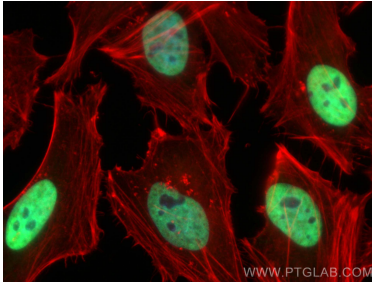
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## Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using CoraLite® Plus 488 MCM6 antibody (CL488-13347) at dilution of 1:200, CL594-phalloidin (red).