

# CPTC-MCM6-1 (CAB079952)

**Uniprot ID:** [Q14566](#)

**Protein name:** MCM6\_HUMAN

**Full name:** DNA replication licensing factor MCM6

**Function:** 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 active ATPase sites in the MCM2-7 ring are formed through the interaction surfaces of two neighboring subunits such that a critical structure of a conserved arginine finger motif is provided in trans relative to the ATP-binding site of the Walker A box of the adjacent subunit. The six ATPase active sites, however, are likely to contribute differentially to the complex helicase activity.

**Subcellular location:**

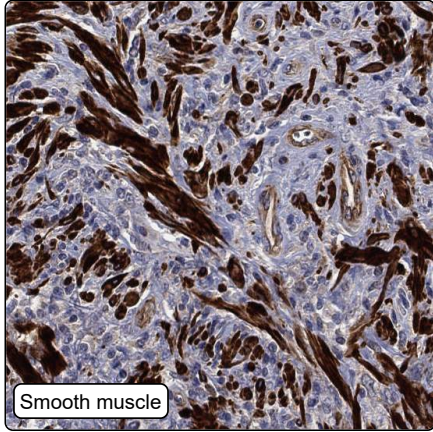
Nucleus

**NOTE:** Binds to chromatin during G1 and detach from it during S phase.

**Protein existence:** Experimental evidence at protein level

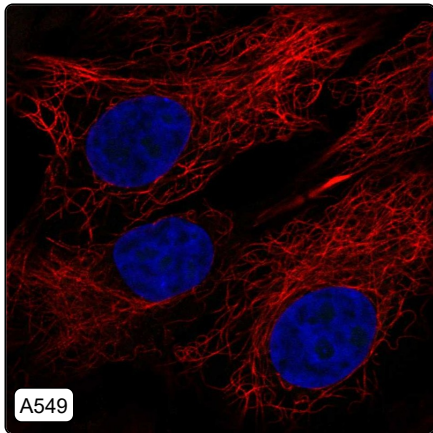
**Comment:**

## Immunohistochemistry



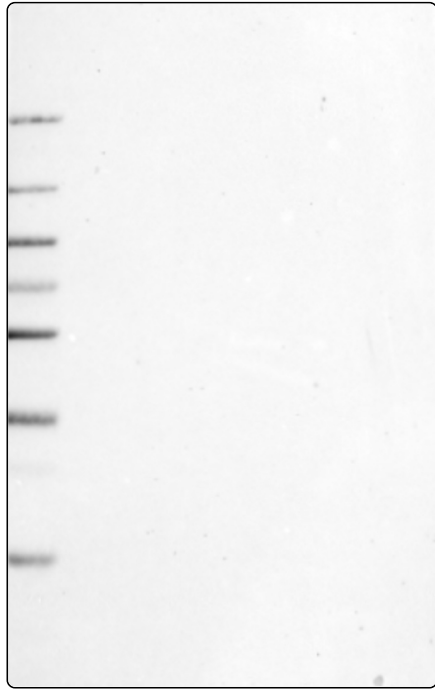
<b>IHC protocol:</b>	HIER pH6, Dilution 1:650
<b>IHC test staining:</b>	Strong positivity in endothelium and smooth muscle.
<b>Literature conformance:</b>	Not consistent with gene/protein characterization data
<b>Literature significance:</b>	Limited
<b>RNA consistency:</b>	Not consistent with RNA expression data
<b>IHC Sibling similarity:</b>	Other antibody shows dissimilar IHC staining pattern
<b>IHC fail comment:</b>	ANTIBODY FAILED: Unspecific staining,Not consistent with RNA

## Immunofluorescence



<b>IF Overlay:</b>	antibody (green), anti-tubuline (red) and DAPI (blue)
<b>IF main location:</b>	
<b>IF additional location:</b>	
<b>IF Antibody score:</b>	Failed IF
<b>IF in A549:</b>	Negative
<b>IF in HEK 293:</b>	Negative
<b>IF in U-2 OS:</b>	Negative

# Western blot



<b>WB Size markers (kDa):</b>	250, 130, 100, 70, 55, 35, 25, 15, 10
<b>WB Lanes:</b>	Marker (1), RT4 (2), U-251 MG (3), Plasma (4), Liver (5), Tonsil (6)
<b>WB Target weight (kDa):</b>	93
<b>WB Validation:</b>	Uncertain (No bands detected.)