

# MCM6 Polyclonal Antibody

Catalog # AP73637

## **Product Information**

Application	WB
Primary Accession	<u>Q14566</u>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	92889

### **Additional Information**

Gene ID	4175
Other Names	MCM6; DNA replication licensing factor MCM6; p105MCM
Dilution	WB~~Western Blot: 1/500 - 1/2000. ELISA: 1/20000. Not yet tested in other applications.
Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.
Storage Conditions	-20°C

## **Protein Information**

Name	MCM6 ( <u>HGNC:6949</u> )
Function	Acts as a component of the MCM2-7 complex (MCM complex) which is the replicative helicase essential for 'once per cell cycle' DNA replication initiation and elongation in eukaryotic cells. Core component of CDC45-MCM-GINS (CMG) helicase, the molecular machine that unwinds template DNA during replication, and around which the replisome is built (PubMed: <u>16899510</u> , PubMed: <u>32453425</u> , PubMed: <u>34694004</u> , PubMed: <u>34700328</u> , PubMed: <u>35585232</u> , PubMed: <u>9305914</u> ). 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 (PubMed: <u>32453425</u> ).
Cellular Location	Nucleus. Chromosome. Note=Binds to chromatin during G1 and detaches from it during S phase.
Background	

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.

#### Images



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