

MCM4 Rabbit mAb

Catalog # AP76583

Product Information

Application	WB, IP
Primary Accession	P33991
Reactivity	Human
Host	Rabbit
Clonality	Monoclonal Antibody
Calculated MW	96558

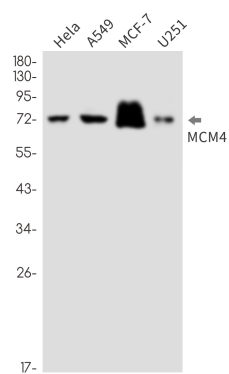
Additional Information

Gene ID	4173
Other Names	MCM4
Dilution	WB~~1/500-1/1000 IP~~N/A
Format	Liquid

Protein Information

Name	MCM4 (HGNC:6947)
Synonyms	CDC21
Function	<p>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:16899510, PubMed:25661590, PubMed:32453425, PubMed:34694004, PubMed:34700328, PubMed:35585232, PubMed:9305914). 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:16899510, PubMed:25661590, PubMed:32453425, PubMed:9305914).</p>
Cellular Location	Nucleus. Chromosome. Note=Associated with chromatin before the formation of nuclei and detaches from it as DNA replication progresses.

Images



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