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KD-Validated Anti-MCM5 Rabbit Monoclonal Antibody

Rabbit monoclonal antibody
Catalog # AGI1871

Product Information

Application	WB, FC, ICC
Primary Accession	P33992
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Names	24GB4965
Calculated MW	82286
Gene Name	MCM5
Aliases	MCM5; Minichromosome Maintenance Complex Component 5; CDC46; DNA Replication Licensing Factor MCM5; CDC46 Homolog; P1-CDC46; MCM5 Minichromosome MaintenanceDeficient 5, Cell Division Cycle 46 (S. Cerevisiae); Minichromosome Maintenance Deficient (S. Cerevisiae) 5 (Cell Division Cycle 46); MCM5 Minichromosome Maintenance Deficient 5, Cell Division Cycle 46; Minichromosome Maintenance Deficient 5 (Cell Division Cycle 46); EC 3.6.4.12; MGORS8
Immunogen	A synthesized peptide derived from human MCM5

Additional Information

Gene ID	4174
Other Names	DNA replication licensing factor MCM5 {ECO:0000303|Ref.3}, 3.6.4.12, CDC46 homolog, P1-CDC46, MCM5, CDC46

Protein Information

Name	MCM5
Synonyms	CDC46
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 (PubMed:40940420). 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:32453425, PubMed:34694004, PubMed:34700328, PubMed:35585232). 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:32453425).

Cellular Location	Nucleus. Chromosome Note=Associated with chromatin before the formation of nuclei and detaches from it as DNA replication progresses

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