

MCM4 Antibody

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP51337

Specification

MCM4 Antibody - Product Information

Application WB, IHC-P, E
Primary Accession P33991
Reactivity Human
Host Rabbit
Clonality Polyclonal
Calculated MW 100 KDa

MCM4 Antibody - Additional Information

Gene ID 4173

Other Names

DNA replication licensing factor MCM4, CDC21 homolog, P1-CDC21, MCM4, CDC21

Dilution

WB~~1:1000 IHC-P~~N/A E~~N/A

Format

0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50%

Storage

Store at -20 °C. Stable for 12 months from date of receipt

MCM4 Antibody - Protein Information

Name MCM4 (HGNC:6947)

Synonyms CDC21

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:16899510, PubMed:25661590, PubMed:32453425, PubMed:34694004, PubMed:34700328, PubMed:35585232, PubMed:<a



href="http://www.uniprot.org/citations/9305914" target="_blank">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).

Cellular Location

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

MCM4 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

MCM4 Antibody - Images

MCM4 Antibody - 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.

MCM4 Antibody - References

Musahl C.,et al.Eur. J. Biochem. 230:1096-1101(1995). Connelly M.A.,et al.Genomics 47:71-83(1998). Ladenburger E.M.,et al.Cytogenet. Cell Genet. 77:268-270(1997). Hu B.,et al.Nucleic Acids Res. 21:5289-5293(1993). Ishimi Y.,et al.J. Biol. Chem. 272:24508-24513(1997).