

# MCM9 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP20295b

## Product Information

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Application	WB, E
Primary Accession	<a href="#">Q9NXL9</a>
Other Accession	<a href="#">F1N2W9</a>
Reactivity	Human
Predicted	Bovine
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB32018
Calculated MW	127313
Antigen Region	316-345

## Additional Information

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Gene ID	254394
Other Names	DNA helicase MCM9, hMCM9, Mini-chromosome maintenance deficient domain-containing protein 1, Minichromosome maintenance 9, MCM9, C6orf61, MCMD1
Target/Specificity	This MCM9 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 316-345 amino acids from the C-terminal region of human MCM9.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	MCM9 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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Name	MCM9
Synonyms	C6orf61, MCMD1

## Function

Component of the MCM8-MCM9 complex, a complex involved in the repair of double-stranded DNA breaks (DBSs) and DNA interstrand cross- links (ICLs) by homologous recombination (HR) (PubMed:[23401855](#)). Required for DNA resection by the MRE11-RAD50-NBN/NBS1 (MRN) complex by recruiting the MRN complex to the repair site and by promoting the complex nuclease activity (PubMed:[26215093](#)). Probably by regulating the localization of the MRN complex, indirectly regulates the recruitment of downstream effector RAD51 to DNA damage sites including DBSs and ICLs (PubMed:[23401855](#)). Acts as a helicase in DNA mismatch repair (MMR) following DNA replication errors to unwind the mismatch containing DNA strand (PubMed:[26300262](#)). In addition, recruits MLH1, a component of the MMR complex, to chromatin (PubMed:[26300262](#)). The MCM8-MCM9 complex is dispensable for DNA replication and S phase progression (PubMed:[23401855](#)). Probably by regulating HR, plays a key role during gametogenesis (By similarity).

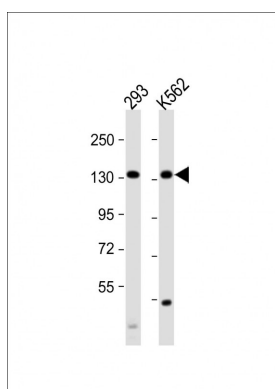
## Cellular Location

Nucleus. Chromosome. Note=Colocalizes to nuclear foci with RPA1 following DNA damage (PubMed:23401855). Localizes to double- stranded DNA breaks (PubMed:23401855). Recruited to chromatin by MSH2 (PubMed:26300262).

## Background

MCM9, a member of the MCM2-8 family, binds to chromatin and is required for the recruitment of the MCM2-7 helicase onto chromatin. MCM9 can form a complex with Cdt1. It is thought that MCM9 might play an important role in DNA replication since its depletion results in its inhibition.

## Images



All lanes : Anti-MCM9 Antibody (C-term) at 1:1000 dilution  
Lane 1: 293 whole cell lysate Lane 2: K562 whole cell lysate  
Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 127 kDa  
Blocking/Dilution buffer: 5% NFDM/TBST.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.