

**MCM9 Antibody (C-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP20295b**

**Specification**

**MCM9 Antibody (C-term) - Product Information**

Application	<b>WB,E</b>
Primary Accession	<a href="#">O9NXL9</a>
Other Accession	<a href="#">F1N2W9</a>
Reactivity	<b>Human</b>
Predicted	<b>Bovine</b>
Host	<b>Rabbit</b>
Clonality	<b>Polyclonal</b>
Isotype	<b>Rabbit Ig</b>
Calculated MW	<b>127313</b>
Antigen Region	<b>316-345</b>

**MCM9 Antibody (C-term) - Additional Information**

**Gene ID** 254394

**Other Names**

DNA helicase MCM9, hMCM9,  
Mini-chromosome maintenance deficient  
domain-containing protein 1,  
Minichromosome maintenance 9, MCM9,  
C6orf61, MCMDC1

**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**

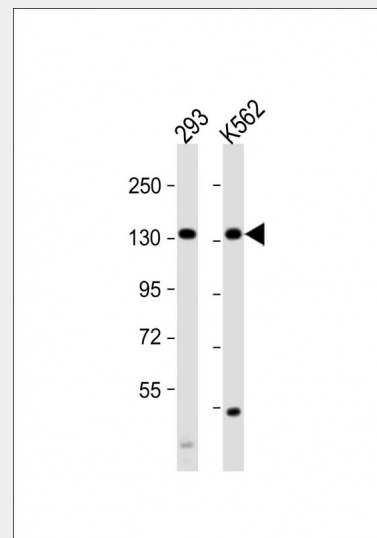
WB~~1:1000

**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.



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.

**MCM9 Antibody (C-term) - 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.

### Precautions

MCM9 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

### MCM9 Antibody (C-term) - Protein Information

**Name** MCM9

**Synonyms** C6orf61, MCMDC1

### 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:<a href="http://www.uniprot.org/citations/23401855" target="\_blank">23401855</a>). 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:<a href="http://www.uniprot.org/citations/26215093" target="\_blank">26215093</a>). 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:<a href="http://www.uniprot.org/citations/23401855" target="\_blank">23401855</a>). Acts as a helicase in DNA mismatch repair (MMR) following DNA replication errors to unwind the mismatch containing DNA strand (PubMed:<a href="http://www.uniprot.org/citations/26300262" target="\_blank">26300262</a>). In addition, recruits MLH1, a component of the MMR complex, to chromatin (PubMed:<a href="http://www.uniprot.org/citations/26300262" target="\_blank">26300262</a>). The MCM8-MCM9 complex is dispensable for DNA replication and S phase progression (PubMed:<a href="http://www.uniprot.org/citations/23401855" target="\_blank">23401855</a>). 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).

### **MCM9 Antibody (C-term) - Protocols**

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)