

## Rabbit MCM4 Polyclonal Antibody | anti-MCM4 antibody

MCM4 antibody - middle region

| CATALOG # | HOST   | REACTIVITY                                                        | APPLICATIONS                       |
|-----------|--------|-------------------------------------------------------------------|------------------------------------|
| AAA198106 | Rabbit | Cow, Dog, Guinea Pig, Horse, Human, Mouse, Rabbit, Rat, Zebrafish | Immunohistochemistry, Western Blot |

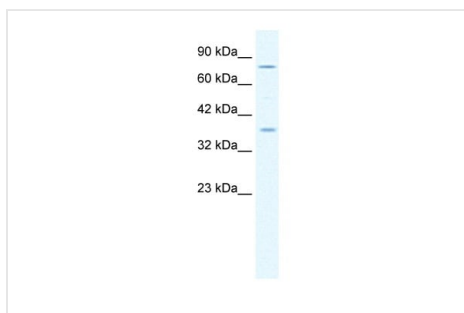
### PRODUCT SYNONYMS

MCM4; Polyclonal Antibody; MCM4 antibody - middle region; anti-MCM4 antibody

### PRODUCT SPECIFICATIONS

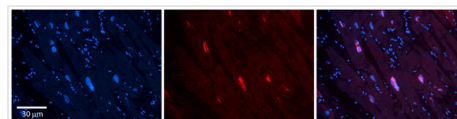
|                                                |                                                                                                                                                       |
|------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                           | Rabbit                                                                                                                                                |
| Reactivity                                     | Cow, Dog, Guinea Pig, Horse, Human, Mouse, Rabbit, Rat, Zebrafish                                                                                     |
| Clonality                                      | Polyclonal                                                                                                                                            |
| Purity/Purification                            | Protein A purified                                                                                                                                    |
| Form/Format                                    | Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.                                                     |
| Sequence                                       | Synthetic peptide with the following region: VY KTHIDVIHYR KTDAKRLHGL DEEAEQKLFS EKRVELLKEK SRKPDIYE                                                  |
| Sequence Length                                | 863                                                                                                                                                   |
| Applicable Applications for anti-MCM4 antibody | IHC (Immunohistochemistry), WB (Western Blot)                                                                                                         |
| Homology                                       | Cow: 100%; Dog: 100%; Guinea Pig: 100%; Horse: 100%; Human: 100%; Mouse: 100%; Rabbit: 100%; Rat: 100%; Zebrafish: 85%                                |
| Immunogen                                      | The immunogen is a synthetic peptide directed towards the middle region of human MCM4                                                                 |
| Preparation and Storage                        | For short term use, store at 2-8 degree C up to 1 week. For long term storage, store at -20 degree C in small aliquots to prevent freeze-thaw cycles. |

### IMAGES



#### WB (Western Blot)

WB Suggested Anti-MCM4 Antibody Titration: 1.25ug/ml  
 ELISA Titer: 1:12500  
 Positive Control: Jurkat cell lysate  
 MCM4 is strongly supported by BioGPS gene expression data to be expressed in Human Jurkat cells



#### IHC (Immunohistochemistry)

Rabbit Anti-MCM4 Antibody  
 Formalin Fixed Paraffin Embedded Tissue: Human heart  
 Tissue  
 Observed Staining: Nucleus  
 Primary Antibody Concentration: 1:100  
 Other Working Concentrations: N/A  
 Secondary Antibody: Donkey anti-Rabbit-Cy3  
 Secondary Antibody Concentration: 1:200  
 Magnification: 20X  
 Exposure Time: 0.5 - 2.0 sec

ADDITIONAL INFORMATION

|                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-MCM4 antibody | <p>This is a rabbit polyclonal antibody against MCM4. It was validated on Western Blot using a cell lysate as a positive control.</p> <p>Target Description: The protein encoded by MCM4 is one of the highly conserved mini-chromosome maintenance proteins (MCM) that are essential for the initiation of eukaryotic genome replication. The hexameric protein complex formed by MCM proteins is a key component of the pre-replication complex (pre_RC) and may be involved in the formation of replication forks and in the recruitment of other DNA replication related proteins. The MCM complex consisting of this protein and MCM2, 6 and 7 proteins possesses DNA helicase activity, and may act as a DNA unwinding enzyme. The phosphorylation of this protein by CDC2 kinase reduces the DNA helicase activity and chromatin binding of the MCM complex. The MCM4 gene is mapped to a region on the chromosome 8 head-to-head next to the PRKDC/DNA-PK, a DNA-activated protein kinase involved in the repair of DNA double-strand breaks.</p> |
| Product Categories/Family for anti-MCM4 antibody   | Polyclonal; Cell Cycle Proteins; Chromatin & Nuclear Signaling; Signal Transduction; Epigenetics; DNA Damage & Repair; DNA/RNA/Protein Interactions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

NCBI AND UNIPROT INFORMATION

|                                  |                                                    |
|----------------------------------|----------------------------------------------------|
| NCBI GI #                        | 33469919                                           |
| NCBI GeneID                      | 4173                                               |
| NCBI Accession #                 | NP_005905                                          |
| NCBI GenBank Nucleotide #        | NM_005914                                          |
| UniProt Accession #              | P33991                                             |
| Molecular Weight                 | 95kDa                                              |
| NCBI Official Full Name          | DNA replication licensing factor MCM4              |
| NCBI Official Synonym Full Names | minichromosome maintenance complex component 4     |
| NCBI Official Symbol             | MCM4                                               |
| NCBI Official Synonym Symbols    | NKCD; CDC21; CDC54; IMD54; NKGCD; hCdc21; P1-CDC21 |
| NCBI Protein Information         | DNA replication licensing factor MCM4              |
| UniProt Protein Name             | DNA replication licensing factor MCM4              |
| UniProt Gene Name                | MCM4                                               |
| UniProt Synonym Gene Names       | CDC21                                              |
| UniProt Entry Name               | MCM4_HUMAN                                         |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/mcm4-antibody-immunohistochemistry-western-blot-elisa/198106>