

# Anti-MCM6 Antibody

Catalog # ABO11077

### Specification

# Anti-MCM6 Antibody - Product Information

Application Primary Accession Host Reactivity Clonality Format **Description** Rabbit IoG polyclonal WB, IHC, ICC <u>014566</u> Rabbit Human, Mouse, Rat Polyclonal Lyophilized

Rabbit IgG polyclonal antibody for DNA replication licensing factor MCM6(MCM6) detection. Tested with WB, IHC-P, IHC-F, ICC in Human;Mouse;Rat.

**Reconstitution** Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

# Anti-MCM6 Antibody - Additional Information

Gene ID 4175

**Other Names** DNA replication licensing factor MCM6, 3.6.4.12, p105MCM, MCM6

Calculated MW 92889 MW KDa

**Application Details** Immunocytochemistry, 0.5-1 μg/ml, Human, Mouse, Rat<br>Immunohistochemistry(Frozen Section), 0.5-1 μg/ml, Human, Rat, Mouse<br>Immunohistochemistry(Paraffin-embedded Section), 0.5-1 μg/ml, Human, Rat, Mouse, By Heat<br>Western blot, 0.1-0.5 μg/ml, Human, Mouse, Rat<br>

**Subcellular Localization** Nucleus. Binds to chromatin during G1 and detach from it during S phase.

**Protein Name** DNA replication licensing factor MCM6

**Contents** Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3.

**Immunogen** A synthetic peptide corresponding to a sequence in the middle region of human MCM6(589-605aa ESEDFIVEQYKHLRQRD), different from the related rat and mouse sequences by one amino acid.

**Purification** Immunogen affinity purified.



**Cross Reactivity** No cross reactivity with other proteins

Storage

At -20°C for one year. After r°Constitution, at 4°C for one month. It°Can also be aliquotted and stored frozen at -20°C for a longer time.Avoid repeated freezing and thawing.

Sequence Similarities Belongs to the MCM family.

#### Anti-MCM6 Antibody - Protein Information

Name MCM6 (HGNC:6949)

#### 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:<a href="http://www.uniprot.org/citations/16899510" target="\_blank">16899510</a>, PubMed:<a href="http://www.uniprot.org/citations/32453425" target="\_blank">32453425</a>, PubMed:<a href="http://www.uniprot.org/citations/34694004" target="\_blank">34694004</a>, PubMed:<a href="http://www.uniprot.org/citations/34700328" target="\_blank">34694004</a>, PubMed:<a href="http://www.uniprot.org/citations/34700328" target="\_blank">34094004</a>, PubMed:<a href="http://www.uniprot.org/citations/34700328" target="\_blank">33695014</a>, PubMed:<a href="http://www.uniprot.org/citations/9305914" target="\_blank">9305914</a>, PubMed:<a href="http://www.uniprot.org/citations/32453425" target="\_blank">9305914</a>, PubMed:<a href="http:

#### **Cellular Location**

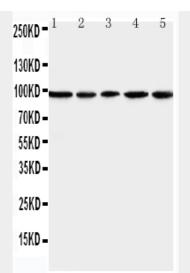
Nucleus. Chromosome. Note=Binds to chromatin during G1 and detaches from it during S phase.

# Anti-MCM6 Antibody - Protocols

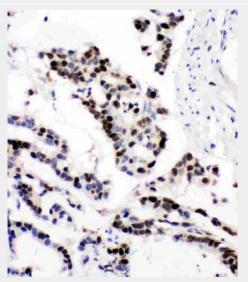
Provided below are standard protocols that you may find useful for product applications.

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

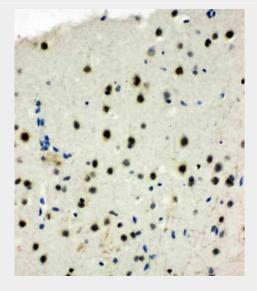
Anti-MCM6 Antibody - Images



Anti-MCM6 antibody, ABO11077, Western blottingLane 1: U87 Cell LysateLane 2: COLO320 Cell LysateLane 3: HELA Cell LysateLane 4: MCF-7 Cell LysateLane 5: JURKAT Cell Lysate



Anti-MCM6 antibody, ABO11077, IHC(P)IHC(P): Human Intestinal Cancer Tissue

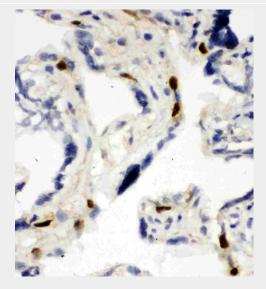




# Anti-MCM6 antibody, ABO11077, IHC(P)IHC(P): Rat Brain Tissue



Anti-MCM6 antibody, ABO11077, ICCICC: HELA Cell



Anti-MCM6 antibody, ABO11077, IHC(F)IHC(F): Human Placenta Tissue Anti-MCM6 Antibody - Background

MCM6(Minichromosome maintenance, s. pombe, homolog of, 6) is a protein that in humans is encoded by the MCM6 gene. MCM6 is one of the highly conserved mini-chromosome maintenance proteins(MCM) that are essential for the initiation of eukaryotic genome replication. The MCM genes were originally identified in yeast defective in minichromosome maintenance and have since been shown to play roles in the progression of the cell cycle; many are cell division control genes. The MCM6 gene is mapped on 2q21.3. Mcm 6 has recently been shown to interact strongly Cdt1 at defined residues, by mutating these target residues Wei et al. observed lack of Cdt1 recruitment of Mcm2-7 to the pre-RC. An approximately 200-kb region surrounding the C/T(-13910) polymorphism in MCM6 intron 13 functioned as an enhancer of the lactase gene promoter in intestinal cell culture.