

## MCM7 Rabbit mAb

Catalog # AP75699

## **Product Information**

Application WB, IHC-P, IP Primary Accession P33993

Reactivity Human, Mouse, Rat

**Host** Rabbit

**Clonality** Monoclonal Antibody

Calculated MW 81308

## **Additional Information**

**Gene ID** 4176

Other Names MCM7

**Dilution** WB~~1/500-1/1000 IHC-P~~N/A IP~~1/20

Format 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% sodium azide and

0.05% BSA.

**Storage** Store at 4°C short term. Aliquot and store at -20°C long term. Avoid

freeze/thaw cycles.

## **Protein Information**

Name MCM7 ( <u>HGNC:6950</u>)

Synonyms CDC47, MCM2

**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: 25661590,

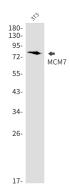
PubMed:32453425, PubMed:34694004, PubMed:34700328,

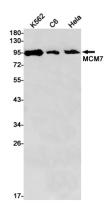
PubMed:<u>35585232</u>, PubMed:<u>9305914</u>). The active ATPase sites in the MCM2-7 ring are formed through the interaction surfaces of two neighboring subunits such that a critical structure of a conserved arginine finger motif is provided in trans relative to the ATP-binding site of the Walker A box of the adjacent subunit. The six ATPase active sites, however, are likely to contribute differentially to the complex helicase activity (PubMed:32453425). Required

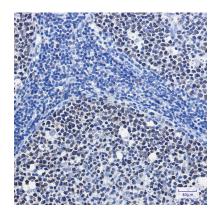
for S-phase checkpoint activation upon UV-induced damage.

**Cellular Location** Nucleus. Chromosome. Note=Associated with chromatin before the formation

of nuclei and detaches from it as DNA replication progresses.







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