

## MCM5 (F51) polyclonal antibody

Catalog: BS1222

Host: Rabbit

Reactivity: Human, Mouse, Rat

### BackGround:

The mini-chromosome maintenance (MCM) family of proteins, including MCM2, MCM3, MCM4 (Cdc21), MCM5 (Cdc46), MCM6 (Mis5) and MCM7 (Cdc47), are regulators of DNA replication that act to ensure replication occurs only once in the cell cycle. Expression of MCM proteins increases during cell growth, peaking at G1 to S phase. The MCM proteins each contain an ATP-binding motif, which is predicted to mediate ATP-dependent opening of double-stranded DNA. MCM proteins are regulated by E2F transcription factors, which induce MCM expression, and by protein kinases, which interact with MCM proteins to maintain the postreplicative state of the cell. MCM2/MCM4 complexes function as substrates for Cdc2/cyclin B in vitro. Cleavage of MCM3, which can be prevented by caspase inhibitors, results in the inactivation of the MCM complex (composed of at least MCM proteins 2–6) during apoptosis.

### Product:

1 mg/ml in Phosphate buffered saline (PBS) with 0.05% sodium azide, approx. pH 7.2.

### Molecular Weight:

~ 82 kDa

### Swiss-Prot:

P33992

### Purification&Purity:

The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

### Applications:

WB: 1:500~1:1000

IHC/IF: 1:50~1:200

IP: 1:10~1:100

### Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

### Specificity:

MCM5 (F51) polyclonal antibody detects endogenous levels of MCM5 protein.

### DATA:



Western blot (WB) analysis of MCM5 (F51) polyclonal antibody at 1:500 dilution

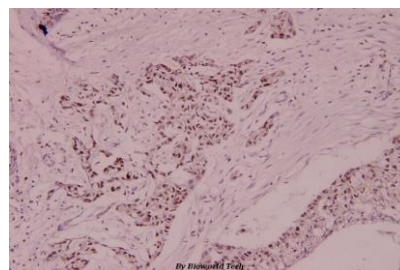
Lane1:CT26 whole cell lysate(40ug)

Lane2:H9C2 whole cell lysate(40ug)

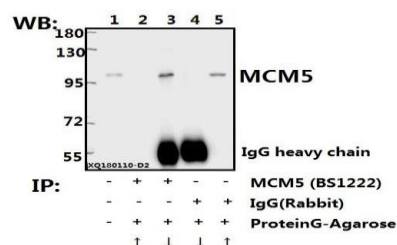
Lane3:A549 whole cell lysate(40ug)

Lane4:HEK293T whole cell lysate(40ug)

Lane5:MCF-7 whole cell lysate(40ug)



Immunohistochemistry (IHC) analyzes of MCM5 (F51) pAb in paraffin-embedded human breast carcinoma tissue at 1:100.



Immunoprecipitation of L02 cell lysate using MCM5 (F51) pAb (Sepharose Bead Conjugate) #BD0048(lane 2 and lane 3) and Nonspecific

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## PRODUCT DATA SHEET

Bioworld Technology, Inc.

IgG Control (Sepharose Bead Conjugate)#BD0047 (lane 4 and lane 5). Lane 1 is 30% input. The western blot was probed using MCM5 (F51) #BS1222. “↑” (supernatant) ; “↓” (deposition)

### Note:

For research use only, not for use in diagnostic procedure.

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