

MCM4 (phospho-S54) polyclonal antibody

Catalog: BS4843

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 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 15 mM sodium azide, approx. pH 7.2.

Molecular Weight:

~ 97 kDa

Swiss-Prot:

P33991

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: 1:50~1:200

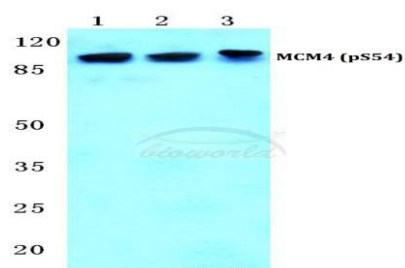
Storage&Stability:

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

Specificity:

p-MCM4 (S54) polyclonal antibody detects endogenous levels of MCM4 protein only when phosphorylated at Ser54.

DATA:



Western blot (WB) analysis of p-MCM4 (S54) polyclonal antibody at 1:500 dilution

Lane1: LO2 cell lysate treated with EGF(0.1ng/ML, 30mins)

Lane2: sp2/0 cell lysate treated with EGF(0.1ng/ML, 30mins)

Lane3: H9C2 cell lysate treated with EGF(0.1ng/ML, 30mins)

Note:

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

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