

# Anti-MCM5 [A2.4B4.B7.A11.A8]

**Catalogue number:** 151727

**Sub-type:** Primary antibody

**Images:**

## Contributor

**Inventor:** Ron Laskey

**Institute:** University of Cambridge

**Images:**

## Tool details

**\*FOR RESEARCH USE ONLY**

**Name:** Anti-MCM5 [A2.4B4.B7.A11.A8]

**Alternate name:** Minichromosome Maintenance Complex Component 5; P1-CDC46; CDC46; Minichromosome Maintenance Deficient 5 (Cell Division Cycle 46); EC 3.6.4.12

**Class:** Monoclonal

**Conjugate:** Unconjugated

**Description:** MCM5 (Mini Chromosome Maintenance protein-5) is structurally very similar to the CDC46 protein from *S. cerevisiae*, a protein involved in the initiation of DNA replication. MCM5 is a member of the MCM family of chromatin-binding proteins, which have DNA dependent ATPase motifs in their central domain. The encoded protein is upregulated in the transition from the G0 to G1/S phase of the cell cycle and may have a role in cell cycle regulation. MCM proteins 2-7 form a family of DNA helicases implicated at the initiation step of DNA synthesis. It has been reported that immunocytochemical assessment of MCM5 expression may be used as a diagnostic tool for cervical cancer and urothelial neoplasia. MCM5 expression may also be applicable in the detection of a number of other cancers including bladder, lung and oesophageal.

**Purpose:**

**Parental cell:**

**Organism:**

**Tissue:**

**Model:**

**Gender:**

**Isotype:** IgG2b

**Reactivity:** Human

**Selectivity:**

**Host:** Mouse

**Immunogen:** Bacterially expressed His-tagged human Mcm5 (amino acids 367-582)

**Immunogen UNIPROT ID:**

**Sequence:**

**Growth properties:**

**Production details:**

**Formulation:**

**Recommended controls:** HeLa, HL60

**Bacterial resistance:**

**Selectable markers:**

**Additional notes:**

## Target details

**Target:** Mini Chromosome Maintenance protein5 (MCM5)

**Target alternate names:**

**Target background:** MCM5 (Mini Chromosome Maintenance protein-5) is structurally very similar to the CDC46 protein from *S. cerevisiae*, a protein involved in the initiation of DNA replication. MCM5 is a member of the MCM family of chromatin-binding proteins, which have DNA dependent ATPase motifs in their central domain. The encoded protein is upregulated in the transition from the G0 to G1/S phase of the cell cycle and may have a role in cell cycle regulation. MCM proteins 2-7 form a family of DNA helicases implicated at the initiation step of DNA synthesis. It has been reported that immunocytochemical assessment of MCM5 expression may be used as a diagnostic tool for cervical cancer and urothelial neoplasia. MCM5 expression may also be applicable in the detection of a number of other cancers including bladder, lung and oesophageal.

**Molecular weight:**

**Ic50:**

## Applications

**Application:** IF ; WB

**Application notes:**

## Handling

**Format:** Liquid

**Concentration:** 0.9-1.1 mg/ml

**Passage number:**

**Growth medium:**

**Temperature:**

**Atmosphere:**

**Volume:**

**Storage medium:**

**Storage buffer:**

PBS with 0.02% azide

**Storage conditions:** -80° C

**Shipping conditions:** Shipping at 4° C

## Related tools

**Related tools:**

## References

**References:**

CancerTools.org