

Anti-MCM5 [A2.9B4.B12.D8.B8]

Catalogue number: 151764

Sub-type: Primary antibody

Images:

Contributor

Inventor: Ron Laskey

Institute: University of Cambridge

Images:

Tool details

***FOR RESEARCH USE ONLY**

Name: Anti-MCM5 [A2.9B4.B12.D8.B8]

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: His-tagged human Mcm5 (amino acids 367582)

Immunogen UNIPROT ID:

Sequence:
Growth properties:
Production details:
Formulation:
Recommended controls:
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: Rowan et al. 2000. Proc Natl Acad Sci U S A. 97(7):3352-7. PMID: 10737795. ; APC mutations in sporadic colorectal tumors: A mutational "hotspot" and interdependence of the "two hits".

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