Product datasheet

Anti-MCM5 Antibody (Clone#4G10)

Catalog Number: *M03642-2*

BOSTER®
antibody and ELISA experts
BOSTER BIOLOGICAL TECHNOLOGY
Building C21, 3rd to 5th Floors, Optics Valley Biopharmaceutical Accelerator,
East Lake High-Tech Development Zone, Wuhan.
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Basic Information

Product Name	Anti-MCM5 Antibody (Clone#4G10)
Gene Name	MCM5
Source	Mouse
Clonality	Monoclonal
Isotype	IgG2a
Species Reactivity	human, mouse, rat
Tested Application	WB, IHC, ICC/IF, FCM
Contents	500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml BSA and 50% glycerol.
Immunogen	E.coli-derived human MCM5 recombinant protein (Position: K206-H723).
Concentration	500 ug/ml
Purification	protein G purified.
Observed MW	95 kDa
Dilution Ratios	Western blot (WB): 1:500-2000 Immunohistochemistry (IHC): 1:50-400 Immunocytochemistry/Immunofluorescence (ICC/IF): 1:50-400 Flow Cytometry (Fixed): 1:50-200 (Boiling the paraffin sections in 10mM citrate buffer,pH6.0,or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.

Storage

12 months from date of receipt，-20℃ as supplied.

Background Information

DNA replication licensing factor MCM5 is a protein that in humans is encoded by the MCM5 gene. It is mapped to 22q12.3. The protein encoded by this gene is structurally very similar to the CDC46 protein from S. cerevisiae, a protein involved in the initiation of DNA replication. The encoded protein is a member of the MCM family of chromatin-binding proteins and can interact with at least two other members of this family. The encoded protein is upregulated in the transition from the G0 to G1/S phase of the cell cycle and may actively participate in cell cycle regulation.

Selected Validation Data

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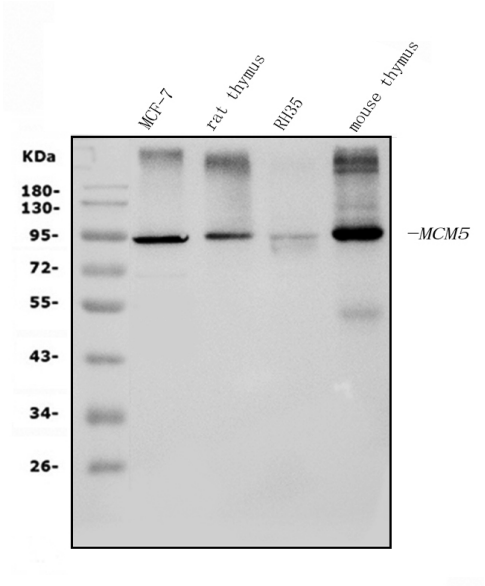
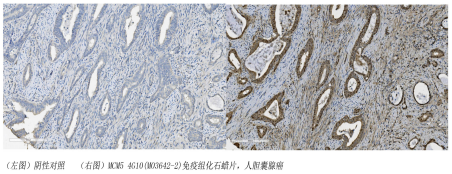
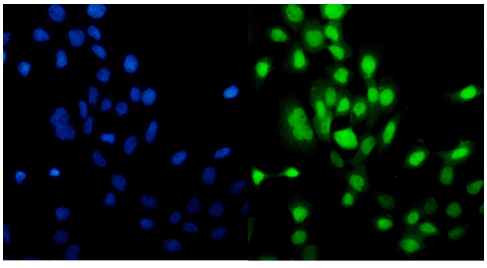


Western blot analysis of MCM5 using anti-MCM5 antibody (M03642-2). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: human MCF-7 whole cell lysates,
Lane 2: rat thymus tissue lysates,
Lane 3: rat RH-35 whole cell lysates,
Lane 4: mouse thymus tissue lysates.
After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with mouse anti-MCM5 antigen affinity purified monoclonal antibody (M03642-2) at a dilution of 1:1000 and probed with a goat anti-mouse IgG-HRP secondary antibody (Catalog # BA1050). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for MCM5 at approximately 95 kDa. The expected band size for MCM5 is at 82 kDa.



（左图）阴性对照　（右图）MCM5 4G10(M03642-2)免疫组化石蜡片，人胆囊腺癌

IHC analysis of MCM5 using anti-MCM5 antibody (M03642-2). MCM5 was detected in a paraffin-embedded section of human gallbladder adenocarcinoma tissue. Biotinylated goat anti-mouse IgG was used as secondary antibody. The tissue section was incubated with mouse anti-MCM5 Antibody (M03642-2) at a dilution of 1:200 and developed using Strepavidin-Biotin-Complex (SABC) (Catalog # SA1021) with DAB (Catalog # AR1027) as the chromogen.



ICC/IF analysis of MCM5 using anti-MCM5 antibody (M03642-2). MCM5 was detected in an immunocytochemical section of A431 cells. The section was incubated with mouse anti-MCM5 Antibody (M03642-2) at a dilution of 1:100. Fluoro488-conjugated Anti-mouse IgG Secondary Antibody (green)(Catalog#BA1126) was used as secondary antibody. The section was counterstained with DAPI (Catalog # AR1176) (Blue).

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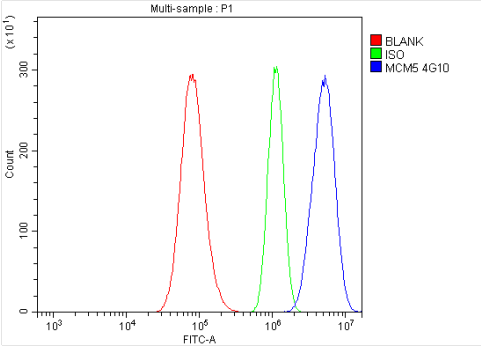

Flow Cytometry analysis of A549 cells using anti-MCM5 antibody (M03642-2).
Overlay histogram showing A549 cells stained with M03642-2 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with mouse anti-MCM5 Antibody (M03642-2) at 1:100 dilution for 30 min at 20°C. Fluoro488 conjugated goat anti-mouse IgG (BA1126) was used as secondary antibody at 1:100 dilution for 30 minutes at 20°C. Isotype control antibody (Green line) was mouse IgG at 1:100 dilution used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.