

# MCM5 Monoclonal Antibody (CRCT5.1)

## Product Details

Size	100 µg
Species Reactivity	Human
Published Species	Human
Host/Isotype	Mouse / IgG2b
Class	Monoclonal
Type	Antibody
Clone	CRCT5.1
Conjugate	Unconjugated
Immunogen	Bacterially expressed human MCM5.
Form	Liquid
Concentration	1 mg/mL
Purification	Protein A
Storage buffer	PBS, pH 7.4
Contains	0.09% sodium azide
Storage conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.
RRID	AB_934584

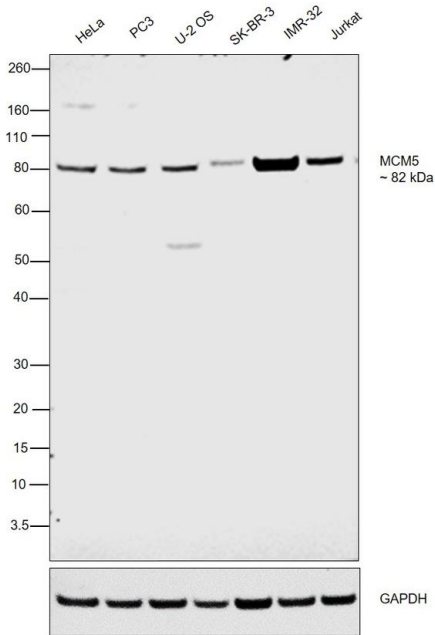
Applications	Tested Dilution	Publications
Western Blot (WB)	1:1,000	-
Immunohistochemistry (Paraffin) (IHC (P))	1:25-1:100	-
Immunocytochemistry (ICC/IF)	5 µg/mL	1 Publication

## Product Specific Information

Heat-mediated antigen retrieval using a sodium citrate buffer (pH 6.0) is recommended for the staining of paraffin sections. A suggested positive control for immunohistochemical applications is tonsil or cervical carcinoma.

Mouse anti Human Mcm5 antibody, clone CRCT5.1 recognizes human Mcm-5 (minichromosome maintenance protein 5), also known as DNA replication licensing factor MCM5 or P1-CDC46.

Product Images For MCM5 Monoclonal Antibody (CRCT5.1)

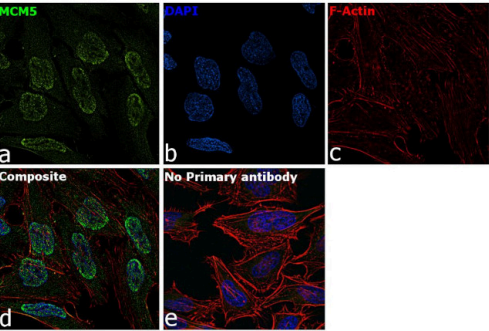


MCM5 Antibody (MA1-80807) in WB

Western blot was performed using Anti-MCM5 Monoclonal Antibody (Product # MA1-80807) and a ~82 kDa band corresponding to MCM5 was observed across the cell lines tested. Modified whole cell extracts (30 µg) of HeLa (Lane 1), PC3 (Lane 2), U-2 OS (Lane 3), SK-BR-3 (Lane 4), IMR-32 (Lane 5) and Jurkat (Lane 6) were electrophoresed using Novex® NuPAGE® 4-12 % Bis-Tris gel (Product # NP0322BOX). Resolved proteins were then transferred onto a nitrocellulose membrane (Product # IB23001) by iBlot® 2 Dry Blotting System (Product # IB21001). The blot was probed with the primary antibody (1:1000 dilution) and detected by chemiluminescence with Goat anti-Mouse IgG (H+L), Superclonal™ Recombinant Secondary Antibody, HRP (Product # A28177, 1:4000 dilution) using the iBright FL 1000 (Product # A32752). Chemiluminescent detection was performed using Novex® ECL Chemiluminescent Substrate Reagent Kit (Product # WP20005).

MCM5 Antibody (MA1-80807) in ICC/IF

Immunofluorescence analysis of MCM5 was performed using 70% confluent log phase HeLa cells. The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 15 minutes, and blocked with 2% BSA for 1 hour at room temperature. The cells were labeled with MCM5 Monoclonal Antibody (Product # MA1-80807) at 5 µg/mL in 0.1% BSA, incubated at 4 degree Celsius overnight and then with Goat anti-Mouse IgG (H+L) Highly Cross-Adsorbed Secondary Antibody, Alexa Fluor Plus 488 (Product # A32723) at a dilution of 1:2000 for 45 minutes at room temperature (Panel a: green). Nuclei (Panel b: blue) were stained with ProLong™ Diamond Antifade Mountant with DAPI (Product # P36962). F-actin (Panel c: red) was stained with Rhodamine Phalloidin (Product # R415, 1:300). Panel d represents the merged image showing nuclear localization. Panel e represents control cells with no primary antibody to assess background. The images were captured at 60X magnification.



MCM5 Antibody (MA1-80807) in IHC (P)

Immunohistochemical staining of formalin-fixed, paraffin-embedded human tonsil using a MCM5 monoclonal antibody (Product # MA1-80807)



Immunocytochemistry (1)

<p>Genes &amp; development</p> <p><b>Dormant origins licensed by excess Mcm2-7 are required for human cells to survive replicative stress.</b></p> <p>"MA1-80807 was used in immunocytochemistry to investigate the role of the dormant origins during the cell cycle progression"</p> <p>Authors: Ge XQ,Jackson DA,Blow JJ</p>	<p>Year 2007</p> <p>Species Human</p>
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