

## Anti-MCM2 Polyclonal Antibody

### Product Details

Ig Type:	IgG
Reactivity:	Human, Mouse (predicted: Rat, Chicken, Dog, Cow, Horse, Rabbit)
Molecular Weight:	Theoretical: 102 kDa.
Purification:	Protein A purified

### Applications

Verified Activity:	<p>1. Tissue/cell: human bladder carcinoma; 4% Paraformaldehyde-fixed and paraffin-embedded;                      Antigen retrieval: citrate buffer (0.01 M, pH 6.0), Boiling bathing for 15 min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30 min; Blocking buffer (normal goat serum) at 37°C for 20 min;                      Incubation: Anti-MCM2 Polyclonal Antibody, Unconjugated (TMAB-08666) 1: 200, overnight at 4°C, followed by conjugation to the secondary antibody and DAB staining</p>
	<p>2. Tissue/cell: human bladder carcinoma; 4% Paraformaldehyde-fixed and paraffin-embedded;                      Antigen retrieval: citrate buffer (0.01 M, pH 6.0), Boiling bathing for 15 min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30 min; Blocking buffer (normal goat serum) at 37°C for 20 min;                      Incubation: Anti-MCM2 Polyclonal Antibody, Unconjugated (TMAB-08666) 1: 200, overnight at 4°C, followed by conjugation to the secondary antibody and DAB staining</p>
Application:	<p>3. Blank control (Black line): Mouse spleen (Black).                      Primary Antibody (green line): Rabbit Anti-MCM2 antibody (TMAB-08666)                      Dilution: 3 µg / 10<sup>6</sup> cells;                      Isotype Control Antibody (orange line): Rabbit IgG.                      Secondary Antibody (white blue line): Goat anti-rabbit IgG-AF647                      Dilution: 1 µg / test.                      Protocol                      The cells were fixed with 4% PFA (10 min at room temperature) and then permeabilized with 90% ice-cold methanol for 20 min at room temperature. The cells were then incubated in 5% BSA to block non-specific protein-protein interactions for 30 min at room temperature. Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 10,000 events was performed.</p>
	<p>IHC-P, IHC-Fr, IF, FCM</p>
Recommended	IHC-P: 1:100-500; IHC-Fr: 1:100-500; IF: 1:100-500; FCM: 3µg/Test

### Properties

Stability & Storage: Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

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### Antigen Details

Immunogen: KLH conjugated synthetic peptide: mouse MCM2

Antigen Species: Mouse

Gene ID: 17216

Uniprot ID: P97310

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### Research Background

The protein encoded by this gene is one of the highly conserved mini-chromosome maintenance proteins (MCM) that are involved in the initiation of eukaryotic genome replication. The hexameric protein complex formed by MCM proteins is a key component of the pre-replication complex (pre\_RC) and may be involved in the formation of replication forks and in the recruitment of other DNA replication related proteins. This protein forms a complex with MCM4, 6, and 7, and has been shown to regulate the helicase activity of the complex. This protein is phosphorylated, and thus regulated by, protein kinases CDC2 and CDC7. Multiple alternatively spliced transcript variants have been found, but the full-length nature of some variants has not been defined. [provided by RefSeq, Oct 2012]

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