

Anti-MCM2 Antibody

Catalog Number:PA1711

About Mcm2

MCM2(MINICHROMOSOME MAINTENANCE, S. CEREVISIAE, HOMOLOG OF, 2),also known as MITOTIN, CDCL1 or BM28, is a human nuclear protein that plays an important role in 2 crucial steps of the cell cycle, namely, onset of DNA replication and cell division. And it is similar to members of the family of early S-phase proteins. The MCM2 gene is mapped to 3q21.3. 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. In the G0 stage, the MCM2 and MCM5 proteins were much less abundant than the MCM7 and MCM3 proteins, which suggests that the MCM proteins are not present in stoichiometric amounts and that only a proportion of these molecules actively participate in cell cycle regulation as part of MCM complexes.

Overview

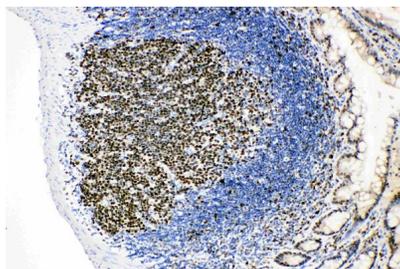
Product Name	Anti-MCM2 Antibody
Reactive Species	Mouse, Rat
Description	Rabbit IgG polyclonal antibody for DNA replication licensing factor MCM2(MCM2) detection. Tested with WB, IHC-P, ICC in Mouse;Rat.
Application	IHC, ICC, WB
Clonality	Polyclonal
Formulation	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3.
Storage Instructions	At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time.Avoid repeated freezing and thawing.
Host	Rabbit
Uniprot ID	P97310

Technical Details

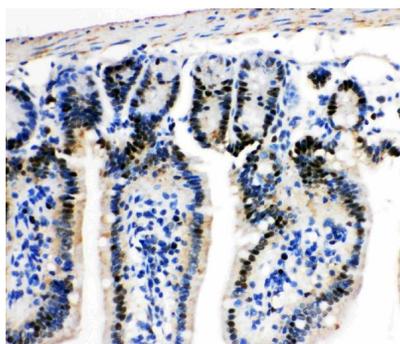
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of mouse
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	MCM2(884-904aa DLFKFNKFSRDLKRKLILQQF), different from the related rat sequence by one amino acid.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P) and ICC.
Cross Reactivity	No cross reactivity with other proteins
Isotype	N/A
Form	Lyophilized
Concentration	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Immunocytochemistry , 0.5-1µg/ml, Mouse, Rat Immunohistochemistry(Paraffin-embedded Section), 0.5-1µg/ml, Mouse, Rat, By Heat Western blot, 0.1-0.5µg/ml, Mouse, Rat
For protocols please visit https://www.bosterbio.com/protocol-and-troubleshooting/	

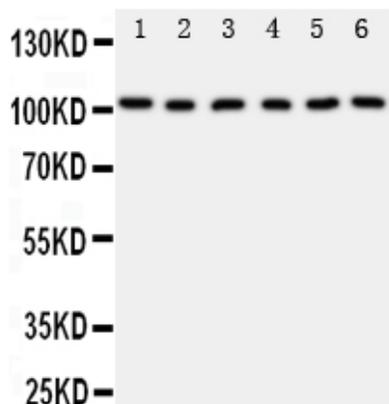
Anti-MCM2 Antibody (PA1711) Images



Anti-MCM2 antibody, PA1711, IHC(P)
IHC(P): Rat Intestinal Lymphocyte Tissue



Anti-MCM2 antibody, PA1711, IHC(P)
IHC(P): Mouse Intestine Tissue



Anti-MCM2 antibody, PA1711, Western blotting

All lanes: Anti MCM2 (PA1711) at 0.5ug/ml

Lane 1: Rat Testis Tissue Lysate at 50ug

Lane 2: Rat Kidney Tissue Lysate at 50ug

Lane 3: Mouse Intestine Tissue Lysate at 50ug

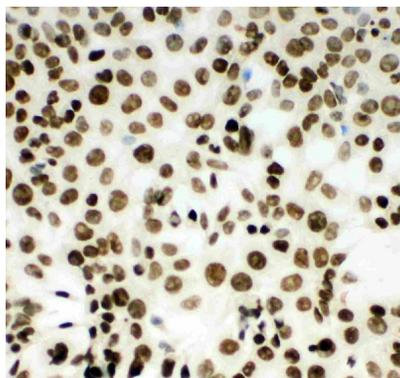
Lane 4: Mouse Testis Tissue Lysate at 50ug

Lane 5: Mouse Ovary Tissue Lysate at 50ug

Lane 6: Mouse Kidney Tissue Lysate at 50ug

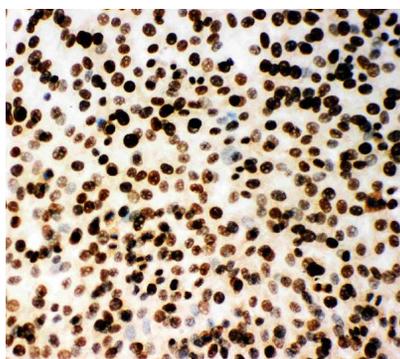
Predicted bind size: 102KD

Observed bind size: 102KD



Anti-MCM2 antibody, PA1711, ICC

ICC: HEPA Cell



Anti-MCM2 antibody, PA1711, ICC

ICC: NIH3T3 Cell

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