

Product Name: BM28 Rabbit Polyclonal Antibody
Catalog #: APRab07582



Summary

Production Name	BM28 Rabbit Polyclonal Antibody
Description	Rabbit Polyclonal Antibody
Host	Rabbit
Application	WB,IHC,IF,ELISA
Reactivity	Human,Mouse

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
Purification	Affinity purification

Immunogen

Gene Name	MCM2
Alternative Names	MCM2; BM28; CCNL1; CDCL1; KIAA0030; DNA replication licensing factor MCM2; Minichromosome maintenance protein 2 homolog; Nuclear protein BM28
Gene ID	4171.0
SwissProt ID	P49736.The antiserum was produced against synthesized peptide derived from human MCM2. AA range:1-50

Application

Dilution Ratio	WB 1:500 - 1:2000. IHC 1:100 - 1:300. IF 1:200 - 1:1000. ELISA: 1:40000. Not yet tested in other applications.
Molecular Weight	120kD

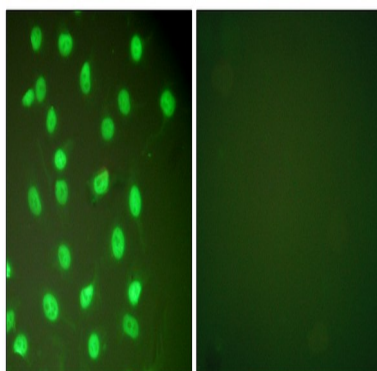
Background

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],function:Acts as a factor that allows the DNA to undergo a single round of replication per cell cycle. Required for the entry in S phase and for cell division.,PTM:Phosphorylated on Ser-108 by ATR in proliferating cells. Ser-108 proliferation is increased by genotoxic agents. Ser-40 is mediated by the CDC7-DBF4 and CDC7-DBF4B complexes, while Ser-53 phosphorylation is only mediated by the CDC7-DBF4 complex.,sequence caution:Translation N-terminally shortened.,similarity:Belongs to the MCM family.,similarity:Contains 1 MCM domain.,subunit:Interacts with DBF4 (By similarity). Interacts with MYST2. May interact with MCM10.,

Research Area

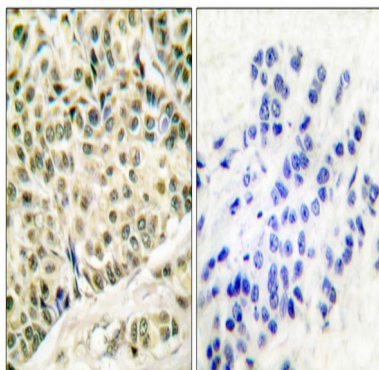
DNA replication;Cell_Cycle_G1S;Cell_Cycle_G2M_DNA;

Image Data

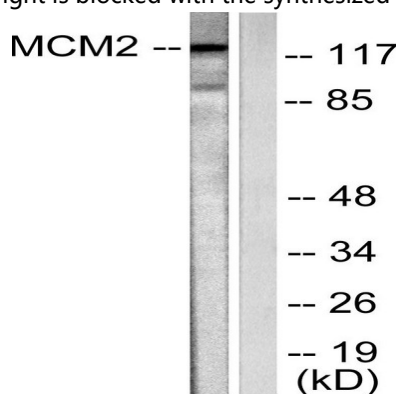


Immunofluorescence analysis of HepG2 cells, using MCM2 Antibody. The picture on the right is blocked with the synthesized peptide.

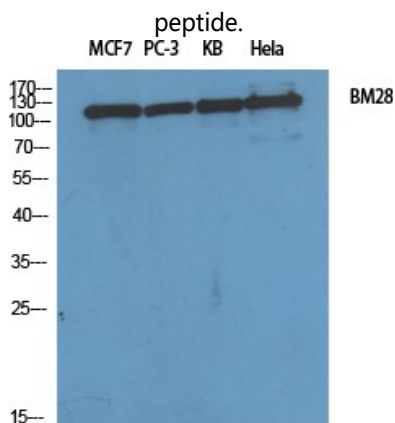
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Immunohistochemistry analysis of paraffin-embedded human breast carcinoma tissue, using MCM2 Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from 293 cells, using MCM2 Antibody. The lane on the right is blocked with the synthesized peptide.

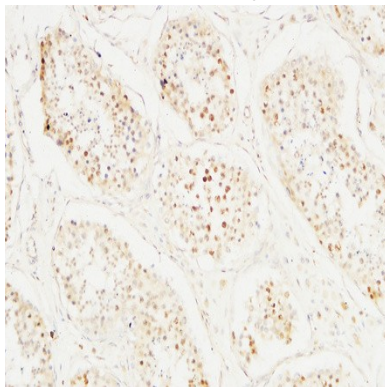


Western Blot analysis of various cells using BM28 Polyclonal Antibody diluted at 1: 2000 cells nucleus extracted by Minute TM Cytoplasmic and Nuclear Fractionation kit (SC-003, Inventbiotech, MN, USA) .

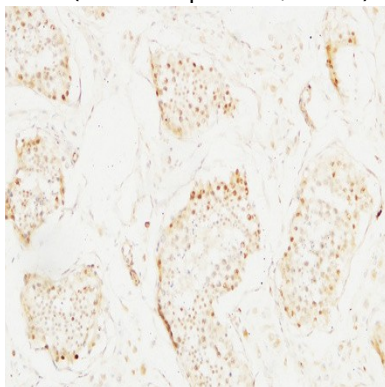
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Western Blot analysis of 293 cells using BM28 Polyclonal Antibody diluted at 1: 2000 cells nucleus extracted by Minute TM Cytoplasmic and Nuclear Fractionation kit (SC-003, Invent biotech, MN, USA) .

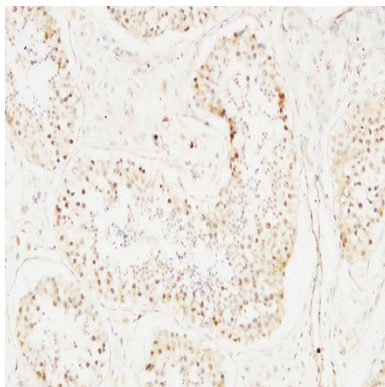


Immunohistochemical analysis of paraffin-embedded Human testis. 1, Antibody was diluted at 1:100 (4°, overnight) . 2, High-pressure and temperature EDTA, pH8.0 was used for antigen retrieval. 3, Secondary antibody was diluted at 1:200 (room temperature, 30min) .

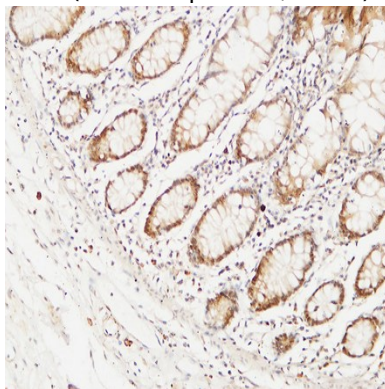


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Immunohistochemical analysis of paraffin-embedded Human colon. 1, Antibody was diluted at 1:100 (4°,overnight) . 2, High-pressure and temperature EDTA, pH8.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200 (room temperature, 30min) .

Note

For research use only.