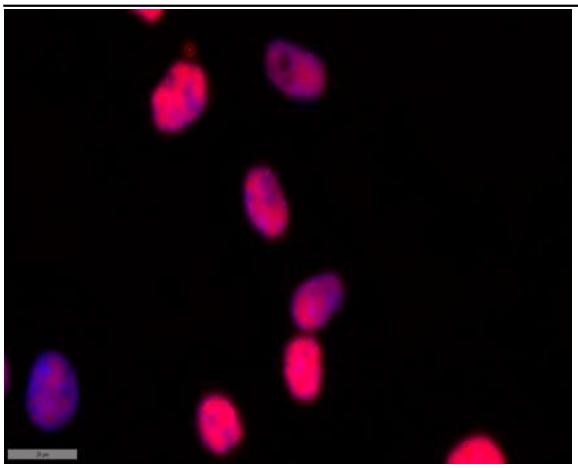
Best Tools for immunology Research

BM28 Polyclonal Antibody

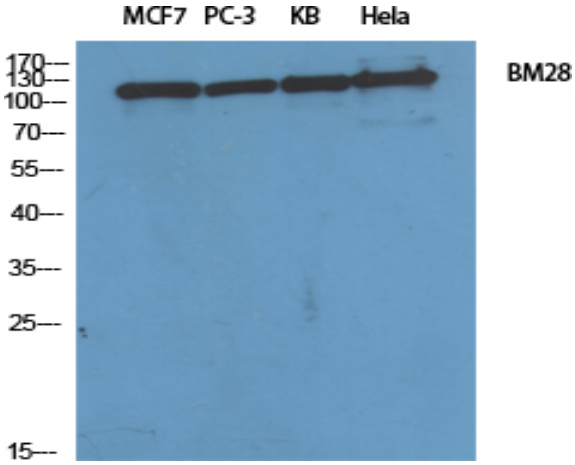
Catalog No :	YT0495
Reactivity :	Human;Mouse
Applications :	WB;IHC;IF;ELISA
Target :	MCM2
Fields :	>>DNA replication;>>Cell cycle
Gene Name :	MCM2
Protein Name :	DNA replication licensing factor MCM2
Human Gene Id :	4171
Human Swiss Prot No :	P49736
Mouse Gene Id :	17216
Mouse Swiss Prot No :	P97310
Immunogen :	The antiserum was produced against synthesized peptide derived from human MCM2. AA range:1-50
Specificity :	BM28 Polyclonal Antibody detects endogenous levels of BM28 protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500 - 1:2000. IHC 1:100 - 1:300. IF 1:200 - 1:1000. ELISA: 1:40000. Not yet tested in other applications.
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration :	1 mg/ml

Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Observed Band :	120kD
Cell Pathway :	DNA replication;Cell_Cycle_G1S;Cell_Cycle_G2M_DNA;
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 :	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.,
Subcellular Location :	Nucleus . Chromosome . Associated with chromatin before the formation of nuclei and detaches from it as DNA replication progresses. .
Expression :	Bone marrow,Brain,Cervix carcinoma,Colon carcinoma,Epitheli

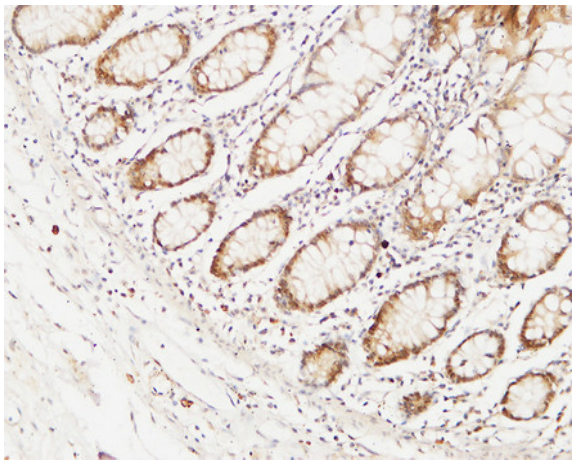
Products Images



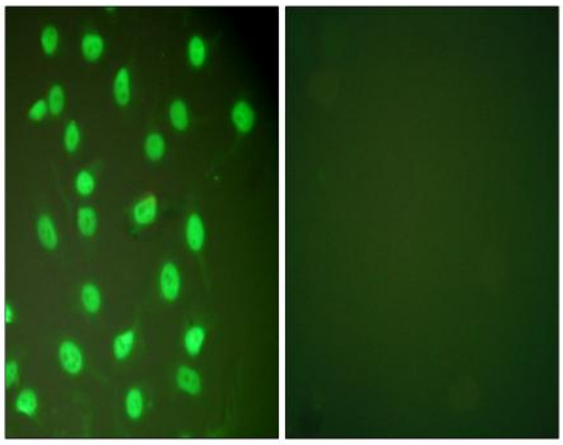
Immunofluorescence analysis of Siha cell. 1,primary Antibody was diluted at 1:100(4°C overnight). 2, Goat Anti Rabbit IgG (H&L) - AFluor 594 Secondary antibody(catalog No: RS3611) was diluted at 1:500(room temperature, 50min).



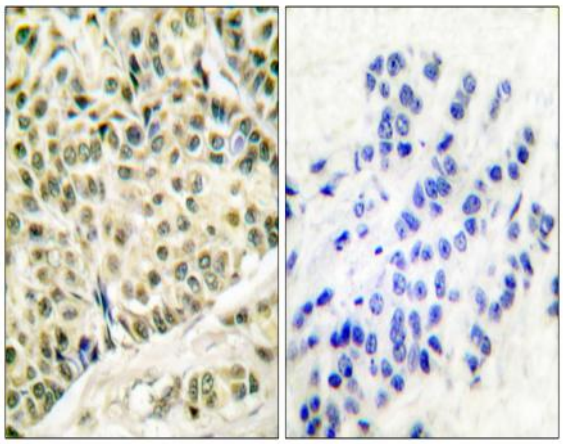
Western Blot analysis of various cells using BM28 Polyclonal Antibody diluted at 1:2000 cells nucleus extracted by Minute TM Cytoplasmic and Nuclear Fractionation kit (SC-003,Inventbiotech,MN,USA).



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).



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



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