Best Tools for immunology Research

BM28 Monoclonal Antibody

Catalog No :	YM0069
Reactivity :	Human;Mouse;Rat;Monkey
Applications :	WB;IHC;IF;FCM;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 :	Purified recombinant fragment of human BM28 expressed in E. Coli.
Specificity :	BM28 Monoclonal Antibody detects endogenous levels of BM28 protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Monoclonal, Mouse
Dilution :	WB 1:500 - 1:2000. IHC 1:200 - 1:1000. Flow cytometry: 1:200 - 1:400. ELISA: 1:10000.. IF 1:50-200
Purification :	Affinity purification
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)

Molecularweight : 102kD

Cell Pathway : DNA replication;Cell_Cycle_G1S;Cell_Cycle_G2M_DNA;

P References :
1. Mol Cell. 2009 Jul 31;35(2):206-16.
2. J Cutan Pathol. 2009 Oct;36(10):1121-2.

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

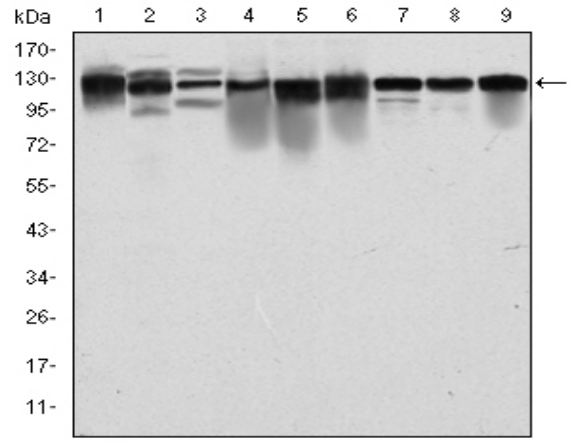
Sort : 2780

No4 : 1

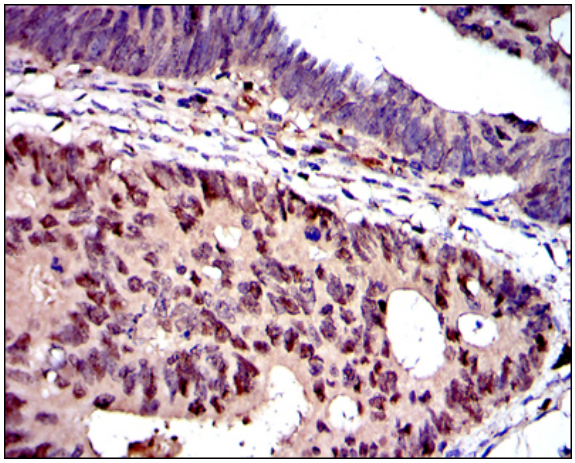
Host : Mouse

Modifications : Unmodified

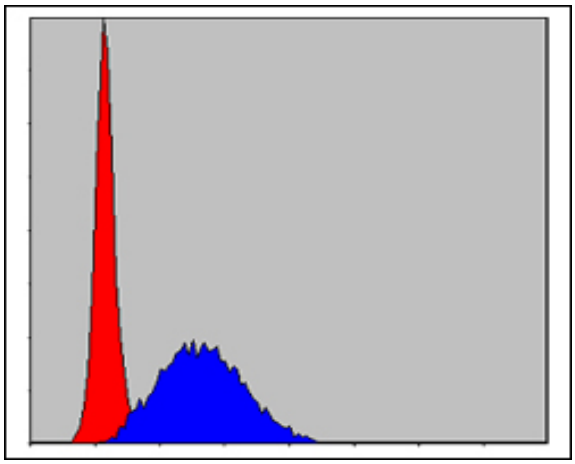
Products Images



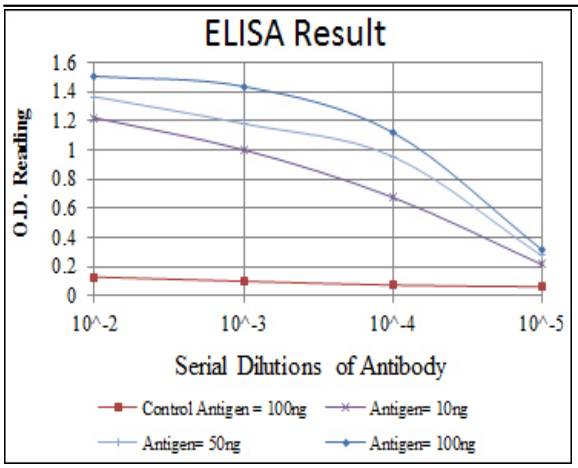
Western Blot analysis using BM28 Monoclonal Antibody against PC-12 (1), Cos7 (2), NIH/3T3 (3), HepG2 (4), HEK293 (5), K562 (6), Jurkat (7), HeLa (8) and MCF-7 (9) cell lysate.



Immunohistochemistry analysis of paraffin-embedded colon cancer tissues with DAB staining using BM28 Monoclonal Antibody.



Flow cytometric analysis of Hela cells using BM28 Monoclonal Antibody (blue) and negative control (red).


ELISA Result
O.D. Reading
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
10^-2
10^-3
10^-4
10^-5
Serial Dilutions of Antibody
Control Antigen = 100ng
Antigen= 10ng
Antigen= 50ng
Antigen= 100ng