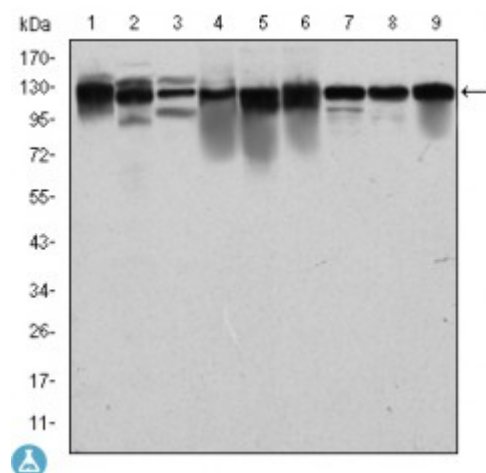


Anti-BM28 antibody



Description	Mouse monoclonal to BM28.
Model	STJ97871
Host	Mouse
Reactivity	Human, Mouse, Rat, Simian
Applications	ELISA, FC, IHC, WB
Immunogen	Purified recombinant fragment of human BM28 expressed in E. Coli.
Gene ID	4171
Gene Symbol	MCM2
Dilution range	WB 1:500-1:2000IHC 1:200-1:1000FC 1:200-1:400ELISA 1:10000
Specificity	BM28 Monoclonal Antibody detects endogenous levels of BM28 protein.
Purification	Affinity purification
Clone ID	2B3
Note	For Research Use Only (RUO).
Protein Name	DNA replication licensing factor MCM2 Minichromosome maintenance protein 2 homolog Nuclear protein BM28
Clonality	Monoclonal
Conjugation	Unconjugated
Isotype	IgG1
Formulation	Ascitic fluid containing 0.03% sodium azide.

Storage Instruction	Store at -20°C, and avoid repeat freeze-thaw cycles.
Database Links	HGNC:6944OMIM:116945
Alternative Names	DNA replication licensing factor MCM2 Minichromosome maintenance protein 2 homolog Nuclear protein BM28
Function	Acts as component of the MCM2-7 complex (MCM complex) which is the putative replicative helicase essential for 'once per cell cycle' DNA replication initiation and elongation in eukaryotic cells. The active ATPase sites in the MCM2-7 ring are formed through the interaction surfaces of two neighboring subunits such that a critical structure of a conserved arginine finger motif is provided in trans relative to the ATP-binding site of the Walker A box of the adjacent subunit. The six ATPase active sites, however, are likely to contribute differentially to the complex helicase activity. Required for the entry in S phase and for cell division. Plays a role in terminally differentiated hair cells development of the cochlea and induces cells apoptosis.
Cellular Localization	Nucleus
Post-translational Modifications	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. Phosphorylation by the CDC7-DBF4 complex during G1/S phase is required for the initiation of DNA replication.