

Datasheet for ABIN968122 anti-MCM2 antibody (AA 725-888)



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Overview

Quantity:	150 µg
Target:	MCM2
Binding Specificity:	AA 725-888
Reactivity:	Human, Mouse, Rat, Dog, Chicken
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This MCM2 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), Immunoprecipitation (IP)

Product Details

Immunogen:	Human BM28 aa. 725-888
Clone:	46-BM28
Isotype:	IgG1
Cross-Reactivity:	Chicken, Dog (Canine), Mouse (Murine), Rat (Rattus)
Characteristics:	<ol style="list-style-type: none"> 1. Since applications vary, each investigator should titrate the reagent to obtain optimal results. 2. Please refer to us for technical protocols. 3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing. 4. Source of all serum proteins is from USDA inspected abattoirs located in the United States.

Product Details

Purification:	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.
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Target Details

Target:	MCM2
Alternative Name:	BM28 (MCM2 Products)
Background:	<p>BM28 is a phosphoprotein that migrates at 125kDa in SDS PAGE with a hyperphosphorylated form migrating as a slightly slower band. The ratio of the phosphorylation states alters with the phases of cell cycle - in M, the fast phosphorylated BM28 is the major form found, while in G1 phase, the slow, hyperphosphorylated BM28 predominates. The cellular localization of BM28 is also cell cycle dependent. In G1, most of the BM28 is chromatin bound, whereas, by M phase, the BM28 is still nuclear, but not associated with the DNA. BM28 is necessary for both entry into S phase and cell division as determined by microinjection inhibition experiments. Microinjection of a BM28 antibody into synchronised cells in G1 phase inhibits DNA replication. When injected during S phase or later, no effect on DNA replication is seen, but cell division is inhibited.</p>
Molecular Weight:	125 kDa
Pathways:	DNA Damage Repair , Mitotic G1-G1/S Phases , DNA Replication , Chromatin Binding , Synthesis of DNA

Application Details

Comment:	Related Products: ABIN968536, ABIN967389
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	250 µg/mL
Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling

Storage: -20 °C

Storage Comment: Store undiluted at -20° C.

Publications

Product cited in: Cook, Park, Burke, Leone, DeGregori, Engel, Nevins: "Analysis of Cdc6 function in the assembly of mammalian prereplication complexes." in: **Proceedings of the National Academy of Sciences of the United States of America**, Vol. 99, Issue 3, pp. 1347-52, (2002) ([PubMed](#)).

Shreeram, Sparks, Lane, Blow: "Cell type-specific responses of human cells to inhibition of replication licensing." in: **Oncogene**, Vol. 21, Issue 43, pp. 6624-32, (2002) ([PubMed](#)).

Ishimi, Ichinose, Omori, Sato, Kimura: "Binding of human minichromosome maintenance proteins with histone H3." in: **The Journal of biological chemistry**, Vol. 271, Issue 39, pp. 24115-22, (1996) ([PubMed](#)).

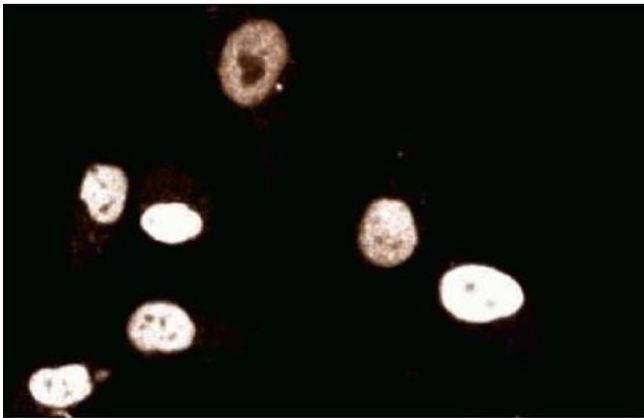
Todorov, Attaran, Kearsey: "BM28, a human member of the MCM2-3-5 family, is displaced from chromatin during DNA replication." in: **The Journal of cell biology**, Vol. 129, Issue 6, pp. 1433-45, (1995) ([PubMed](#)).

Todorov, Pepperkok, Philipova, Kearsey, Ansorge, Werner: "A human nuclear protein with sequence homology to a family of early S phase proteins is required for entry into S phase and for cell division." in: **Journal of cell science**, Vol. 107 (Pt 1), pp. 253-65, (1994) ([PubMed](#)).



Western Blotting

Image 1. Western blot analysis of BM28 on human endothelial cell lysate. Lane 1: 1:500, lane 2: 1:1000, lane 3: 1:2000 dilution of anti-BM28 antibody.



Immunofluorescence

Image 2. Immunofluorescent staining of Human Endothelial cells.

Image 3.

