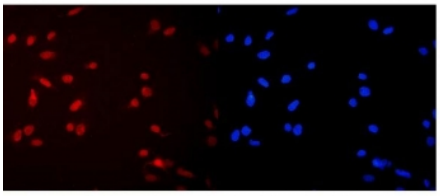
MCM2 Antibody (R30734)

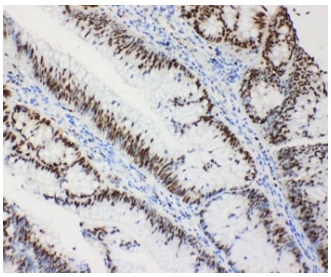
Catalog No.	Formulation	Size
R30734	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

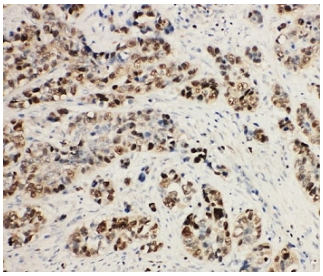
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide/thimerosal
UniProt	P49736
Applications	Western Blot : 0.5-1ug/ml Immunohistochemistry (FFPE) : 0.5-1ug/ml Immunocytochemistry : 2ug/ml Flow Cytometry : 1-3ug/million cells
Limitations	This MCM2 antibody is available for research use only.



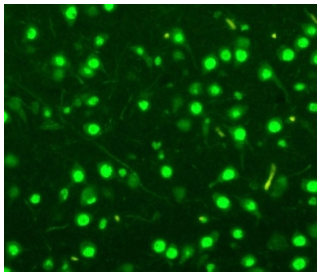
Immunofluorescent staining of FFPE human U-2 OS cells with MCM2 antibody (red) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



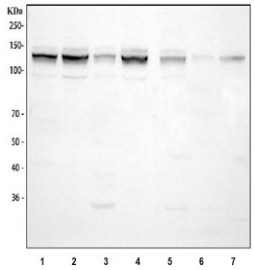
IHC-P: MCM2 antibody testing of human intestinal cancer tissue. HIER: steam section in pH6 citrate buffer for 20 min.



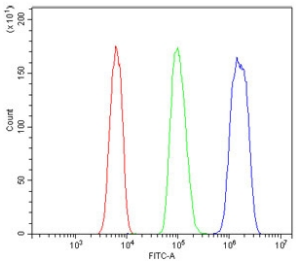
IHC-P: MCM2 antibody testing of human lung cancer tissue. HIER: steam section in pH6 citrate buffer for 20 min.



IF/ICC staining of A549 cells with MCM2 antibody. HIER: steam section in pH6 citrate buffer for 20 min.



Western blot testing of 1) human HeLa, 2) human 293T, 3) human Jurkat, 4) human MCF7, 5) rat C6, 6) mouse spleen and 7) mouse NIH 3T3 cell lysate with MCM2 antibody. Predicted molecular weight: 100~130 kDa.



Flow cytometry testing of fixed and permeabilized human HL60 cells with MCM2 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= MCM2 antibody.

Description

Minichromosome maintenance, S. cerevisiae, homolog of, 2, also known as MITOTIN, CDCL1 or BM28, is a human nuclear protein that plays an important role in two crucial steps of the cell cycle, namely, onset of DNA replication and cell division. It is similar to members of the family of early S-phase proteins. The MCM2 gene is mapped to 3q21.3. 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. In the G0 stage, the MCM2 and MCM5 proteins were much less abundant than the MCM7 and MCM3 proteins, which suggests that the MCM proteins are not present in stoichiometric amounts and that only a proportion of these molecules actively participate in cell cycle regulation as part of MCM complexes.

Application Notes

The stated application concentrations are suggested starting amounts. Titration of the MCM2 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

An amino acid sequence from the C-terminus of human MCM2 (NKFSHDLKRKMILQQF) was used as the immunogen for

this MCM2 antibody.

Storage

After reconstitution, the MCM2 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.