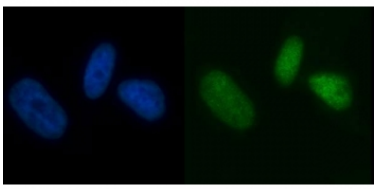
MCM7 Antibody [clone 3H11] (RQ7119)

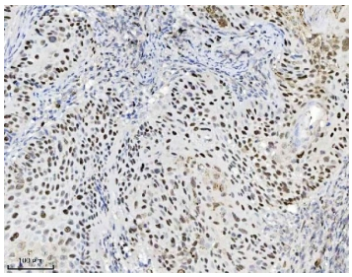
Catalog No.	Formulation	Size
RQ7119	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

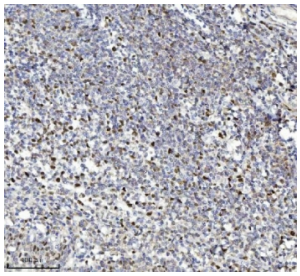
Availability	1-3 business days
Species Reactivity	Human, Rat
Format	Antigen affinity purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1
Clone Name	3H11
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	P33993
Localization	Nuclear
Applications	Western blot: 0.5-1ug/ml Immunohistochemistry (FFPE): 2-5ug/ml Immunofluorescence: 5ug/ml Flow cytometry: 1-3ug/million cells
Limitations	This MCM7 antibody is available for research use only.



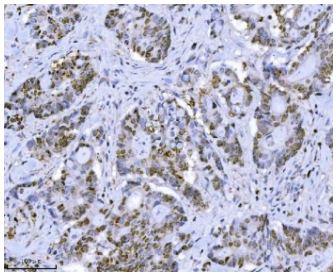
MCM7 Antibody PC-3 Cell IF. Immunofluorescent staining of FFPE human PC-3 cells with MCM7 antibody (green) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



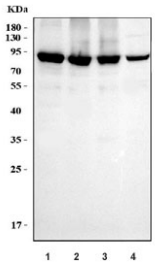
MCM7 Antibody Laryngeal Squamous Cell Carcinoma IHC. Immunohistochemistry staining of FFPE human laryngeal squamous cell carcinoma tissue with MCM7 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



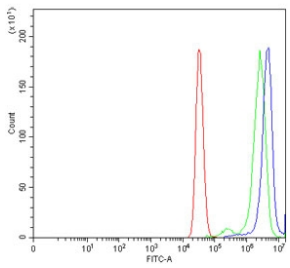
MCM7 Antibody Chronic Tonsillitis Tissue IHC. Immunohistochemistry staining of FFPE human chronic tonsillitis tissue with MCM7 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



MCM7 Antibody Adenocarcinoma of the Colon Tissue IHC. Immunohistochemistry staining of FFPE human adenocarcinoma of the colon tissue with MCM7 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



Western blot testing of 1) human HeLa, 2) human MCF7, 3) human MDA-MB-231 and 4) rat C6 cell lysate with MCM7 antibody. Expected molecular weight: 80~90 kDa.



MCM7 Antibody MCF7 Cell FACS. Flow cytometry testing of human MCF7 cells with MCM7 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= MCM7 antibody.

Description

MCM7 (Minichromosome Maintenance, s. Cerevisiae, homolog of, 7), also called CDC47, is one of the highly conserved mini-chromosome maintenance proteins (MCM) that are essential for the initiation of eukaryotic genome replication. The MCM7 gene is mapped to 7q22.1. MCM7 plays a pivotal role in the G1/S phase transition, orchestrating the correct assembly of replication forks on chromosomal DNA and ensuring that all the genome is replicated once and not more than once at each cell cycle. The MCM7 gene contains 15 exons. The miRNAs MIR106B, MIR93, and MIR25 are clustered in a 5-prime to 3-prime orientation within intron 13. It has been found that MCM7 and the precursors of microRNAs (miRNAs) MIR106B, MIR93, and MIR25, all of which arise from intron 13 of the MCM7 gene, were overexpressed with almost perfect correlation in 5 of 10 human gastric tumors.

This antibody is part of a broader panel of MCM7 antibodies designed to support detection of proliferation-associated proteins across multiple research applications.

Application Notes

Optimal dilution of the MCM7 antibody should be determined by the researcher.

Immunogen

Recombinant human protein (amino acids D526-V719) was used as the immunogen for the MCM7 antibody.

Storage

After reconstitution, the MCM7 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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