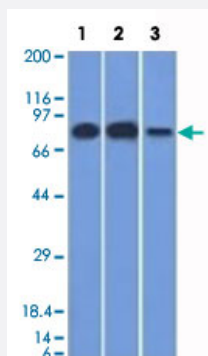


MCM7 monoclonal antibody, clone MCM7/1466

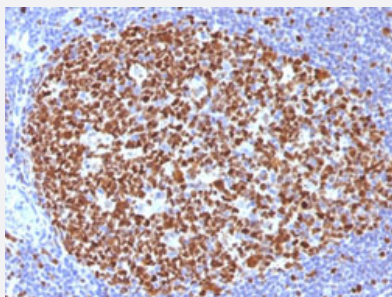
Catalog # MAB14845 Size 100 ug

Applications



Western Blot (Cell lysate)

Western Blot analysis of Lane 1: HeLa, Lane 2: Raji and Lane 3: HepG2 cell lysates with MCM7 monoclonal antibody, clone MCM7/1466 (Cat # MAB14845).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human tonsil with MCM7 monoclonal antibody, clone MCM7/1466 (Cat # MAB14845).

Specification

Product Description	Mouse monoclonal antibody raised against partial recombinant human MCM7.
Immunogen	Recombinant protein corresponding to amino acids 195-319 of human MCM7.
Host	Mouse
Theoretical MW (kDa)	88
Reactivity	Human
Form	Liquid

Purification	Protein A/G purification
Isotype	IgG2b
Recommend Usage	Flow Cytometry (0.5-1 ug/10 ⁶ cells) Immunofluorescence (0.5-1 ug/mL) Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (1-2 ug/mL) Western Blotting (0.5-1 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	In 10 mM PBS.
Storage Instruction	Store at -20 to -80°C. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Cell lysate)

Western Blot analysis of Lane 1: HeLa, Lane 2: Raji and Lane 3: HepG2 cell lysates with MCM7 monoclonal antibody, clone MCM7/1466 (Cat # MAB14845).

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human tonsil with MCM7 monoclonal antibody, clone MCM7/1466 (Cat # MAB14845).

- Immunofluorescence

- Flow Cytometry

Gene Info — MCM7

Entrez GeneID	4176
Protein Accession#	P33993
Gene Name	MCM7
Gene Alias	CDABP0042, CDC47, MCM2, P1.1-MCM3, P1CDC47, P85MCM, PNAS-146
Gene Description	minichromosome maintenance complex component 7
Omim ID	600592
Gene Ontology	Hyperlink

Gene Summary

The protein encoded by this gene is one of the highly conserved mini-chromosome maintenance proteins (MCM) that are essential for the initiation of eukaryotic genome replication. The hexameric protein complex formed by the 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. The MCM complex consisting of this protein and MCM2, 4 and 6 proteins possesses DNA helicase activity, and may act as a DNA unwinding enzyme. Cyclin D1-dependent kinase, CDK4, is found to associate with this protein, and may regulate the binding of this protein with the tumorsuppressor protein RB1/RB. Alternatively spliced transcript variants encoding distinct isoforms have been reported. [provided by RefSeq]

Other Designations

DNA replication licensing factor MCM7|MCM7 minichromosome maintenance deficient 7|homolog of *S. cerevisiae* Cdc47|minichromosome maintenance deficient 7

Publication Reference

- [A common set of conserved motifs in a vast variety of putative nucleic acid-dependent ATPases including MCM proteins involved in the initiation of eukaryotic DNA replication.](#)

Koonin EV.

Nucleic Acids Research 1993 Jun; 21(11):2541.

Pathway

- [Cell cycle](#)
- [DNA replication](#)

Disease

- [Autistic Disorder](#)
- [Genetic Predisposition to Disease](#)