

Mouse MCM7/CDC47 Monoclonal Antibody | anti-MCM7 antibody

MCM7/CDC47 (Proliferation Marker)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA214446	Mouse	Human. Others not known	Immunohistochemistry, Western Blot, Immunofluorescence, Flow Cytometry, Functional Assay

PRODUCT SYNONYMS

MCM7/CDC47; Monoclonal Antibody; MCM7/CDC47 (Proliferation Marker); CDC47; DNA replication licensing factor MCM7; MCM7 mini chromosome maintenance deficient 7; Minichromosome Maintenance 7; Mini chromosome maintenance protein 7; P1.1-MCM3; P1CDC47; P85MCM; PNAS146; anti-MCM7 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human. Others not known
Clonality	Monoclonal
Isotype	IgG1, kappa
Clone Number	SPM379
Specificity	MCM7 is one of the highly conserved mini-chromosome maintenance proteins (MCM) that is 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 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 tumor suppressor protein RB1/RB.
Form/Format	200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Sequence Length	543
Applicable Applications for anti-MCM7 antibody	IHC (Immunohistochemistry), WB (Western Blot), IF (Immunofluorescence), FCM/FACS (Flow Cytometry)
Immunogen	Recombinant human full-length hCDC47 protein
Cellular Localization	Nuclear
Hu-chromosome Location	7q21.3-q22.1
Positive Control	Exponentially growing any cultured human cells. Tonsil or lymph node.
Preparation and Storage	Antibody with azide - store at 2 to 8 degree C. Antibody without azide - store at -20 to -80 degree C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

IMAGES



WB (Western Blot)
Western Blot Analysis of HCT116 Cell Lysate using EpCAM Monoclonal Antibody (EGP40/1120)



IHC (Immunohistochemistry)
Formalin-fixed, paraffin-embedded human Tonsil stained with MCM7 Monoclonal Antibody (SPM379).

ADDITIONAL INFORMATION

References	Koonin, E.V. 1993. 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. Nucleic Acids Res. 21: 2541-2547.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	518830597
NCBI GeneID	4176
NCBI Accession #	NP_001265524.1
NCBI GenBank Nucleotide #	NM_001278595.1
UniProt Accession #	P33993; Q15076; Q96D34; Q96GL1; A4D2A1; A4D2A2; E9PGN9
Molecular Weight	88kDa
NCBI Official Full Name	DNA replication licensing factor MCM7 isoform 2
NCBI Official Synonym Full Names	minichromosome maintenance complex component 7
NCBI Official Symbol	MCM7
NCBI Official Synonym Symbols	MCM2; CDC47; P85MCM; P1CDC47; PNAS146; PPP1R104; P1.1-MCM3
NCBI Protein Information	DNA replication licensing factor MCM7
UniProt Protein Name	DNA replication licensing factor MCM7
UniProt Gene Name	MCM7
UniProt Synonym Gene Names	CDC47; MCM2

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.