

Mouse anti-Human MCM7 Antibody | anti-MCM7 antibody

MCM7 (Proliferation Marker)

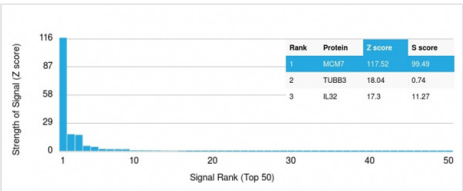
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA215082	Mouse	Human	Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

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

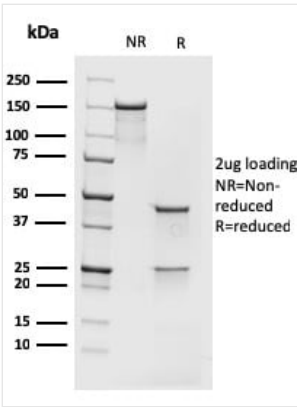
PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Isotype	IgG1, kappa
Clone Number	rMCM7/1468
Specificity	The specificity of this monoclonal antibody to its intended target was validated by HuProt™ Array, containing more than 19,000, full-length human proteins. 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.
Purity/Purification	Purified Ab with BSA and Azide at 200ug/ml OR Purified Ab WITHOUT BSA and Azide at 1.0mg/ml
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)
Positive Control	MCF-7, HEK-293, A549, SKBr3, HeP2, Raji or Ramos cells. Tonsil (IHC).
Immunogen	Recombinant human MCM7 protein fragment (aa195-319) (exact sequence is proprietary)
Cellular Localization	Nuclear
Hu-chromosome Location	7q21.3-q22.1
Antibody Type	Recombinant Mouse Monoclonal Antibody
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.



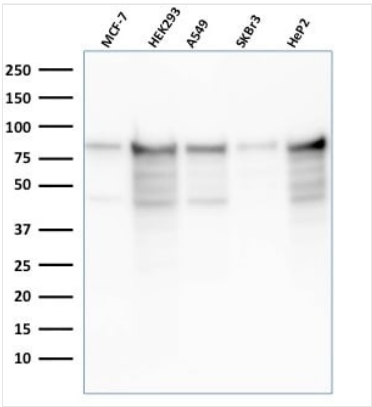
Application Data

Analysis of Protein Array containing more than 19,000 full-length human proteins using MCM7 Recombinant Mouse Monoclonal Antibody (rMCM7/1468) Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProt™ array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProt™ are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to be specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.



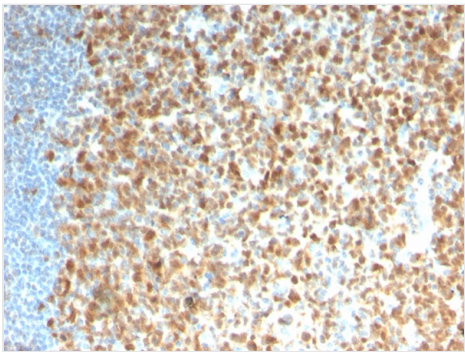
SDS-PAGE

SDS-PAGE Analysis Purified MCM7 Recombinant Mouse Monoclonal Antibody (rMCM7/1468). Confirmation of Integrity and Purity of Antibody.



WB (Western Blot)

Western Blot Analysis of MCF-7, HEK-293, A549, SKBr3, Hep2 cell lysates using MCM7 Recombinant Mouse Monoclonal Antibody (rMCM7/1468).



IHC (Immunohistochemistry)

Formalin-fixed, paraffin-embedded human Tonsil stained with MCM7 Recombinant Mouse Monoclonal Antibody (rMCM7/1468).

ADDITIONAL INFORMATION

References	Koonin, E.V. 1993. 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 #	NP_001265524.1
UniProt Accession #	P33993
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
UniProt Entry Name	MCM7_HUMAN

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.

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Online datasheet: <https://www.aaabiotech.com/mouse-human-antibody/mcm7/215082>