MCM7 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	MCM7, Polyclonal Antibody
Full Product Name	MCM7, NT (MCM7, CDC47, MCM2, DNA replication licensing factor MCM7, CDC47 homolog, P1.1-MCM3) (MaxLight 490)
Product Gene Name	anti-MCM7 antibody
Product Synonym Names	MCM7; CDC47; MCM2; DNA replication licensing factor MCM7; CDC47 homolog; P1.1-MCM3
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight490.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight490 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
OMIM	600592
3D Structure	ModBase 3D Structure for P33993
Immunogen	MCM7 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 113-142 amino acids from the N-terminal region of human MCM7.
Conjugate	MaxLight490
Note	Preservative Free
Product Categories/Family for anti-MCM7 antibody	Antibodies; Cell Division Cycle (CDC)
Applications Tested/Suitable for anti-MCM7 antibody	Western Blot (WB), FLISA
Application Notes for anti-MCM7 antibody	WB: 1:100-500 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-MCM7 antibody	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.
Product References and Citations for anti-MCM7 antibody	Lau, K.M., et al. Oncogene 29(40):5475-5489(2010). Kim, D.W., et al. Mol. Biochem. Parasitol. 173(1):10-16(2010). Olson, J.E., et al. Breast Cancer Res. Treat. (2010). In press: Rojiani, M.V., et al. Appl. Immunohistochem. Mol. Morphol. 18(3):278-282(2010). Poliseno, L., et al. Sci Signal 3 (117), RA29 (2010).

Other Notes	Small volumes of anti-MCM7 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for MCM7 purchase	MBS6319722 is an antibody targeting MCM7. Also known as MCM7, NT (MCM7, CDC47, MCM2, DNA replication licensing factor MCM7, CDC47 homolog, P1.1-MCM3) (MaxLight 490). Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MCM7. It may not necessarily be applicable to this product.

NCBI GI #	33469922
NCBI GeneID	4176
NCBI Accession #	NP_877577.1
NCBI Related Accession #	NP_005907.3
UniProt Primary Accession #	P33993
UniProt Related Accession #	P33993
GenBank Nucleotide #	NP_877577.1
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
UniProt Protein Name	DNA replication licensing factor MCM7
UniProt Synonym Protein Names	CDC47 homolog; P1.1-MCM3
Protein Family	DNA replication licensing factor
UniProt Gene Name	MCM7
UniProt Synonym Gene Names	CDC47; MCM2
UniProt Entry Name	MCM7_HUMAN
NCBI Protein Information	DNA replication licensing factor MCM7
Research Articles on MCM7	**1.** In this study, we demonstrated for the first time that MCM2 among MCM2-7 except for MCM5 is specifically degraded, and that MCM2 and MCM7 are localized in the cytoplasm in senescent cells. To examine the relationship between the cytoplasmic localization of MCM proteins and cell cycle phase, the distribution of DNA content of cells showing cytoplasmic localization of MCM2 and MCM7 was examined.
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