MCM4 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	MCM4, Polyclonal Antibody
Full Product Name	MCM4 Antibody
Product Gene Name	anti-MCM4 antibody
Product Synonym Names	MCM4; CDC21; DNA replication licensing factor MCM4; CDC21 homolog; P1-CDC21
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Liquid; In Phosphate Buffered Saline, 50% Glycerol, 0.5% BSA and 0.02% Sodium Azide.
Purity/Purification	Affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Preparation and Storage	Upon receipt, store at -20 degree C or -80 degree C. Avoid repeated freeze.
Molecular Weight	96,558 Da
Chromosome Location	Chromosome: 8; NC_000008.10 (48872763..48890720). Location: 8q11.2
OMIM	602638
3D Structure	ModBase 3D Structure for P33991
Immunogen	Synthesized peptide derived from human MCM4 around the non-phosphorylation site of S54.
Immunogen Species	Human
Conjugate	Non-conjugated
Product Categories/Family for anti-MCM4 antibody	Epigenetics and Nuclear Signaling
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-MCM4 antibody	Western Blot (WB), Immunohistochemistry (IHC), ELISA (EIA)
Application Notes for anti-MCM4 antibody	WB: 1:500-1:2000 IHC: 1:100-1:300 ELISA: 1:20000
Related Product Information for anti-MCM4 antibody	MBS7119838 is an antibody targeting MCM4. Also known as MCM4 Antibody. Reactive in Human, Mouse. Host: Rabbit.
Other Notes	Small volumes of anti-MCM4 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MCM4. It may not necessarily be applicable to this product.

NCBI GI #	33469919

NCBI GeneID	4173
NCBI Accession #	NP_005905.2
UniProt Primary Accession #	P33991
UniProt Secondary Accession #	Q8NEH1; Q99658
UniProt Related Accession #	P33991
GenBank Nucleotide #	NM_005914.3
NCBI Official Full Name	DNA replication licensing factor MCM4
NCBI Official Synonym Full Names	minichromosome maintenance complex component 4
NCBI Official Symbol	MCM4
NCBI Official Synonym Symbols	NKCD; CDC21; CDC54; NKGCD; hCdc21; P1-CDC21
UniProt Protein Name	DNA replication licensing factor MCM4
UniProt Synonym Protein Names	CDC21 homolog; P1-CDC21
Protein Family	DNA replication licensing factor
UniProt Gene Name	MCM4
UniProt Synonym Gene Names	CDC21
UniProt Entry Name	MCM4_HUMAN
NCBI Protein Information	DNA replication licensing factor MCM4; CDC21 homolog; minichromosome maintenance deficient 4; homolog of S. pombe cell devision cycle 21
NCBI Summary for MCM4	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 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, 6 and 7 proteins possesses DNA helicase activity, and may act as a DNA unwinding enzyme. The phosphorylation of this protein by CDC2 kinase reduces the DNA helicase activity and chromatin binding of the MCM complex. This gene is mapped to a region on the chromosome 8 head-to-head next to the PRKDC/DNA-PK, a DNA-activated protein kinase involved in the repair of DNA double-strand breaks. Alternatively spliced transcript variants encoding the same protein have been reported. [provided by RefSeq, Jul 2008]
UniProt Comments for MCM4	MCM4: a mini-chromosome maintenance protein, essential for the initiation of eukaryotic genome replication. The MCM hexameric protein complex is a key component of the pre-replication complex. The complex consisting of this protein and MCM2, 6 and 7 possesses DNA helicase activity. Phosphorylation by CDC2 reduces the DNA helicase activity and chromatin binding of the complex. Protein type: EC 3.6.4.12; DNA replication Chromosomal Location of Human Ortholog: 8q11.2 Cellular Component: nucleoplasm; membrane; MCM complex; nucleus Molecular Function: ATP-dependent DNA helicase activity; protein binding; single-stranded DNA binding; ATP binding Biological Process: DNA unwinding during replication; DNA replication initiation; DNA strand elongation during DNA replication; mitotic cell cycle; DNA replication; G1/S transition of mitotic cell cycle Disease: Natural Killer Cell And Glucocorticoid Deficiency With Dna Repair Defect
Research Articles on MCM4	**1.** Peroxisome proliferator-activated receptor gamma coactivator 1beta (PGC-1beta) protein attenuates vascular lesion formation by inhibition of chromatin loading of minichromosome maintenance complex in smooth muscle cells

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