MCM2 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	MCM2, Monoclonal Antibody
Full Product Name	MCM2 Monoclonal Antibody
Product Gene Name	anti-MCM2 antibody
Clonality	Monoclonal
Clone Number	YN01046m
Host	Mouse
Species Reactivity	Human
Preparation and Storage	The concentrated should be stored at -20 degree C protecting from light,Valid for 12 months.
Molecular Weight	101,896 Da
Chromosome Location	Chromosome: 3; NC_000003.11 (127317253..127341279). Location: 3q21
OMIM	116945
3D Structure	ModBase 3D Structure for P49736
Product Categories/Family for anti-MCM2 antibody	Pathology Antibodies; Primary Antibodies; Concentrated Antibodies
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-MCM2 antibody	Immunohistochemistry-Paraffin (IHC-P)
Related Product Information for anti-MCM2 antibody	Microchromosome maintenance protein 2 (MCM2) is related to the occurrence and development of human nasopharyngeal carcinoma. The expression intensity can reflect the activity of cell DNA replication. The pathogenesis of NPC involves the abnormality of MCM2, which can better reflect the proliferation rule of cancer cells, distinguish non cancer cells and cancer cells, and is closely related to the occurrence and clinical progress of NPC.
Other Notes	Small volumes of anti-MCM2 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 MCM2 purchase	MBS2579948 is an antibody targeting MCM2. Also known as MCM2 Monoclonal Antibody. Reactive in Human. Host: Mouse.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MCM2. It may not necessarily be applicable to this product.

NCBI GI #	33356547
NCBI GeneID	4171
NCBI Accession #	NP_004517.2
UniProt Primary Accession #	P49736
UniProt Secondary Accession #	Q14577; Q15023; Q8N2V1; Q969W7; Q96AE1; Q9BRM7
UniProt Related Accession #	P49736

GenBank Nucleotide #	NM_004526.3
NCBI Official Full Name	DNA replication licensing factor MCM2
NCBI Official Synonym Full Names	minichromosome maintenance complex component 2
NCBI Official Symbol	MCM2
NCBI Official Synonym Symbols	BM28; CCNL1; CDCL1; cdc19; D3S3194; MITOTIN
UniProt Protein Name	DNA replication licensing factor MCM2
UniProt Synonym Protein Names	Minichromosome maintenance protein 2 homolog; Nuclear protein BM28
Protein Family	DNA replication licensing factor
UniProt Gene Name	MCM2
UniProt Synonym Gene Names	BM28; CCNL1; CDCL1; KIAA0030
UniProt Entry Name	MCM2_HUMAN
NCBI Protein Information	DNA replication licensing factor MCM2; cyclin-like 1; nuclear protein BM28; cell devision cycle-like 1; minichromosome maintenance protein 2 homolog; minichromosome maintenance deficient 2 (mitotin); MCM2 minichromosome maintenance deficient 2, mitotin
NCBI Summary for MCM2	The protein encoded by this gene is one of the highly conserved mini-chromosome maintenance proteins (MCM) that are involved in 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. This protein forms a complex with MCM4, 6, and 7, and has been shown to regulate the helicase activity of the complex. This protein is phosphorylated, and thus regulated by, protein kinases CDC2 and CDC7. Multiple alternatively spliced transcript variants have been found, but the full-length nature of some variants has not been defined. [provided by RefSeq, Oct 2012]
UniProt Comments for MCM2	MCM2: a mini-chromosome maintenance protein, essential for the initiation of eukaryotic genome replication. Allows DNA to undergo a single round of replication per cell cycle. Required for the entry in S phase and for cell division. Protein type: DNA-binding; EC 3.6.4.12 Chromosomal Location of Human Ortholog: 3q21 Cellular Component: microtubule cytoskeleton; nucleoplasm; MCM complex; cytoplasm; chromatin; nuclear origin of replication recognition complex; nucleus Molecular Function: protein binding; DNA helicase activity; DNA binding; histone binding; metal ion binding; DNA replication origin binding; ATP binding Biological Process: DNA unwinding during replication; nucleosome assembly; DNA replication initiation; DNA strand elongation during DNA replication; mitotic cell cycle; cell cycle; DNA replication; G1/S transition of mitotic cell cycle
Research Articles on MCM2	**1.** Immunohistochemical expression of minichromosome maintenance complex protein 2 predicts biochemical recurrence in prostate cancer.
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