MCM4 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	MCM4, Monoclonal Antibody
Full Product Name	MCM4 (Minichromosome Maintenance Deficient 4, CDC21, CDC21 Homolog, CDC54, DNA Replication Licensing Factor MCM4, hCdc21, Homolog of S. pombe Cell Devision Cycle 21, MGC33310, Minichromosome Maintenance 4, Minichromosome Maintenance Complex Component 4, P
Product Gene Name	anti-MCM4 antibody
Clonality	Monoclonal
Isotype	IgG2a,k
Clone Number	1A6
Host	Mouse
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with R-Phycoerythrin (PE).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human MCM4.
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: PE conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Immunogen	Partial recombinant corresponding to aa267-366 from human MCM4 (AAH31061) with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	KTKNMRNLNPEDIDQLITISGMVIRTSQLIPEMQEAFFQCQVCAHTTRVEMDRGRIAEPSVCGRCHTTHSMALIHNRSLFSDKQMIKLQESPEDMPAGQT
Conjugate	PE
Product Categories/Family for anti-MCM4 antibody	Antibodies; DNA Replication; Repair
Applications Tested/Suitable for anti-MCM4 antibody	ELISA (EIA)
Application Notes for anti-MCM4 antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-MCM4 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 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.

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.
Searchable Terms for MCM4 purchase	MBS6158771 is an antibody targeting MCM4. Also known as MCM4 (Minichromosome Maintenance Deficient 4, CDC21, CDC21 Homolog, CDC54, DNA Replication Licensing Factor MCM4, hCdc21, Homolog of S. pombe Cell Devision Cycle 21, MGC33310, Minichromosome Maintenance 4, Minichromosome Maintenance Complex Component 4, P. Reactive in Human. Host: Mouse.

ADDITIONAL DETAILS

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

NCBI GI #	21410274
NCBI GeneID	4173
NCBI Accession #	BC031061
NCBI Related Accession #	AAH31061
UniProt Related Accession #	P33991
NCBI Official Full Name	Homo sapiens minichromosome maintenance complex component 4, mRNA
NCBI Official Synonym Full Names	minichromosome maintenance complex component 4
NCBI Official Symbol	MCM4
NCBI Official Synonym Symbols	NKCD; CDC21; CDC54; IMD54; NKGCD; hCdc21; P1-CDC21
Protein Family	DNA replication licensing factor
NCBI Protein Information	DNA replication licensing factor MCM4
Research Articles on MCM4	**1.** MCM2, MCM4, and MCM6 labeling seems to outperform Ki67 as tools to assess cellular proliferation in breast cancer. The onset of sustained Ki67 expression occurs only in late G1 phase, while MCM can label all proliferative cells during the active phases of cell cycle
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