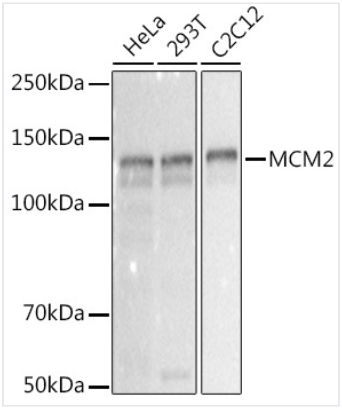
MCM2 Antibody – Rabbit Monoclonal

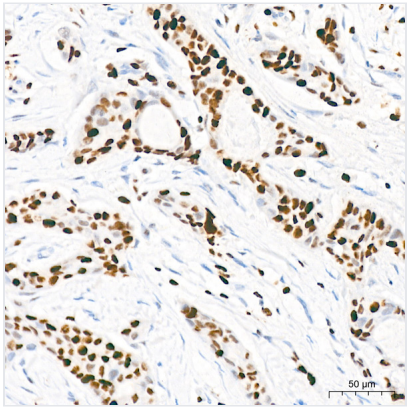
PRODUCT OVERVIEW

Product Name	MCM2, Monoclonal Antibody
Full Product Name	MCM2 Rabbit mAb
Product Gene Name	anti-MCM2 antibody
Product Synonym Names	BM28; CCNL1; CDCL1; cdc19; DFNA70; D3S3194; MITOTIN; MCM2
Immunogen Sequence	MAESSESFTM ASSPAQRRRG NDPLTSSPGR SSRRTDALTS SPGRDLPPFE DESEGLLGTE GPLEEEEDGE ELIGDGMERD YRAIPELDAY EAEGLALDDE
Clonality	Monoclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	PBS with 0.02% sodium azide, 0.05% BSA, 50% glycerol, pH7.3.
Purity/Purification	Affinity purification
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.
Molecular Weight	Calculated MW: 102kDa Observed MW: 125kDa
OMIM	116945
3D Structure	ModBase 3D Structure for P49736
Cross Reactivity	Human, Mouse, Rat
Immunogen	A synthetic peptide corresponding to a sequence within amino acids 1-100 of human MCM2 (P49736).
Product Categories/Family for anti-MCM2 antibody	Epigenetics Nuclear Signaling; Protein phosphorylation; Cell Biology Developmental Biology; Cell Cycle; Centrosome; Stem Cells; Antibodies
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-MCM2 antibody	Western Blot (WB), Immunohistochemistry-Paraffin (IHC-P), Immunofluorescence (IF), Immunocytochemistry (ICC), ELISA (EIA)
Application Notes for anti-MCM2 antibody	WB: 1:500-1:1000 IHC-P: 1:50-1:200 IF/ICC: 1:50-1:200 ELISA: Recommended starting concentration is 1ug/mL. Please optimize the concentration based on your specific assay requirements.
Related Product Information for anti-MCM2 antibody	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.
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.

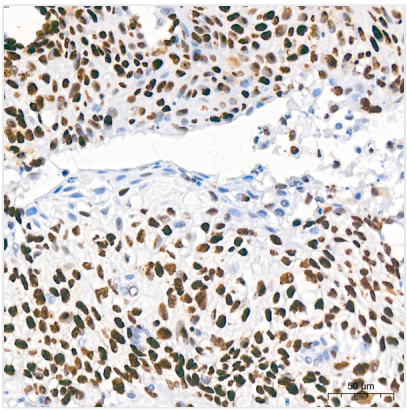
Searchable Terms for MCM2 purchase	MBS9147516 is an antibody targeting MCM2. Also known as MCM2 Rabbit mAb. Reactive in Human. Host: Rabbit.



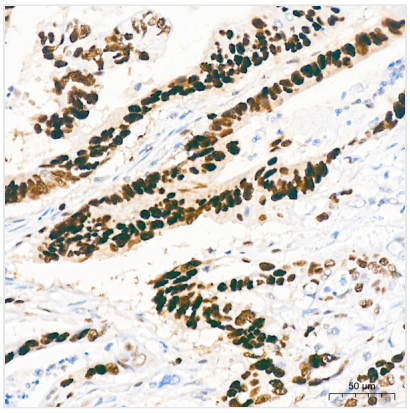
Western Blot (WB) of anti-MCM2 antibody
Western blot analysis of various lysates using MCM2 Rabbit mAb (MBS9147516) at 1:1000 dilution.Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.Lysates/proteins: 25ug per lane.Blocking buffer: 3% nonfat dry milk in TBST.Detection: ECL Basic Kit (RM00020).Exposure time: 0.3s.



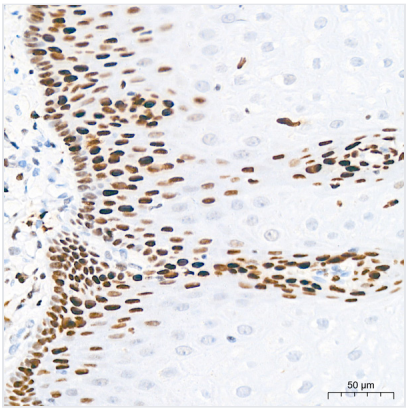
Immunohistochemistry (IHC) of anti-MCM2 antibody
Immunohistochemistry analysis of paraffin-embedded Human breast cancer tissue using MCM2 Rabbit mAb (MBS9147516) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Bufferr (pH 6.0) prior to IHC staining.



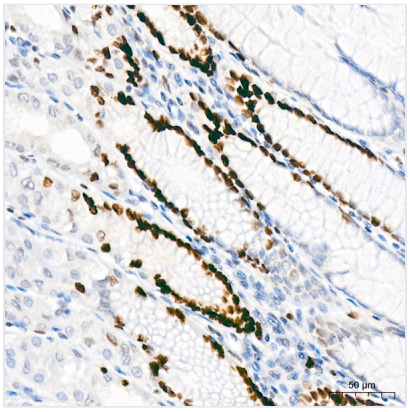
Immunohistochemistry (IHC) of anti-MCM2 antibody
Immunohistochemistry analysis of paraffin-embedded Human cervix cancer tissue using MCM2 Rabbit mAb (MBS9147516) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Bufferr (pH 6.0) prior to IHC staining.



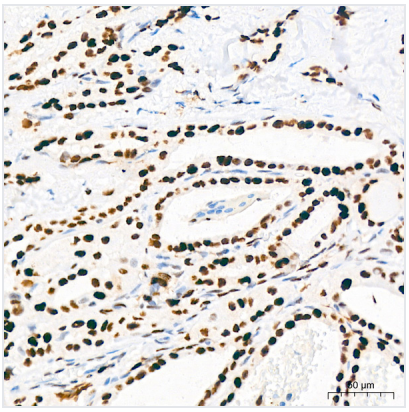
Immunohistochemistry (IHC) of anti-MCM2 antibody
Immunohistochemistry analysis of paraffin-embedded Human colon carcinoma tissue using MCM2 Rabbit mAb (MBS9147516) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Bufferr (pH 6.0) prior to IHC staining.



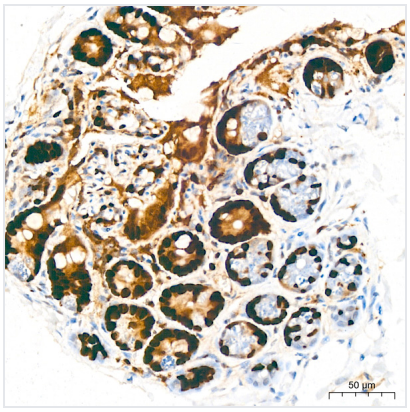
Immunohistochemistry (IHC) of anti-MCM2 antibody
Immunohistochemistry analysis of paraffin-embedded Human esophagus tissue using MCM2 Rabbit mAb (MBS9147516) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Bufferr (pH 6.0) prior to IHC staining.



Immunohistochemistry (IHC) of anti-MCM2 antibody
Immunohistochemistry analysis of paraffin-embedded Human stomach tissue using MCM2 Rabbit mAb (MBS9147516) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Bufferr (pH 6.0) prior to IHC staining.



Immunohistochemistry (IHC) of anti-MCM2 antibody
Immunohistochemistry analysis of paraffin-embedded Human thyroid tissue using MCM2 Rabbit mAb (MBS9147516) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Bufferr (pH 6.0) prior to IHC staining.



Immunohistochemistry (IHC) of anti-MCM2 antibody
Immunohistochemistry analysis of paraffin-embedded Mouse colon tissue using MCM2 Rabbit mAb (MBS9147516) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Bufferr (pH 6.0) prior to IHC staining.

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
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
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

Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/monoclonal-human-antibody/mcm2/9147516