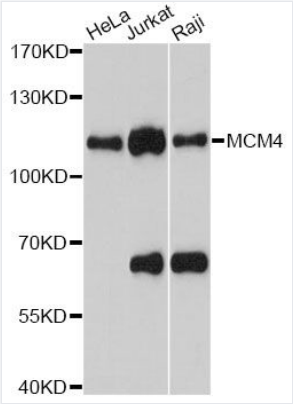
MCM4 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	MCM4, Polyclonal Antibody
Full Product Name	MCM4 Polyclonal Antibody
Product Gene Name	anti-MCM4 antibody
Product Synonym Names	CDC21; CDC54; hCdc21; NKCD; NKGCD; P1-CDC21
Immunogen Sequence	QMIKLQESPE DMPAGQTPHT VILFAHNDLV DKVQPGDRVN VTGIYRAVPI RVNPRVSNVK SVYKTHIDVI HYRKTDAKRL HGLDEEAEQK LFSEKRVELL K
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Purity/Purification	Affinity Purification
Preparation and Storage	Store at -20 degree C. Avoid freeze / thaw cycles.
Molecular Weight	Calculated: 96kDa Observed: 110kDa
OMIM	X74794 mRNA
3D Structure	ModBase 3D Structure for P33991
Immunogen	A synthetic peptide of human MCM4
Immunogen Species	Human
Storage Buffer	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Cellular Location	Nucleus
Positive Samples	HeLa, Jurkat, Raji
Product Categories/Family for anti-MCM4 antibody	Polyclonal Antibodies
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-MCM4 antibody	Western Blot (WB)
Application Notes for anti-MCM4 antibody	WB: 1:500 - 1:2000
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	MBS9133552 is an antibody targeting MCM4. Also known as MCM4 Polyclonal Antibody. Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-MCM4 antibody
Western blot analysis of extracts of various cell lines, using MCM4 antibody at 1:1000 dilution.Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (MBS128200) at 1:10000 dilution.Lysates/proteins: 25ug per lane.Blocking buffer: 3% nonfat dry milk in TBST.Detection: ECL Basic Kit.Exposure time: 30s.

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; IMD54; 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
NCBI Protein Information	DNA replication licensing factor MCM4

UniProt Comments for MCM4	Acts as component of the MCM2-7 complex (MCM complex) which is the putative replicative helicase essential for 'once per cell cycle' DNA replication initiation and elongation in eukaryotic cells. The active ATPase sites in the MCM2-7 ring are formed through the interaction surfaces of two neighboring subunits such that a critical structure of a conserved arginine finger motif is provided in trans relative to the ATP-binding site of the Walker A box of the adjacent subunit. The six ATPase active sites, however, are likely to contribute differentially to the complex helicase activity.
Research Articles on MCM4	**1.** MCM4 and MCM7 expression is significantly correlated with Ki-67, Bmi1, and cyclin E expression in esophageal adenocarcinoma, squamous cell carcinoma and precancerous lesions.
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