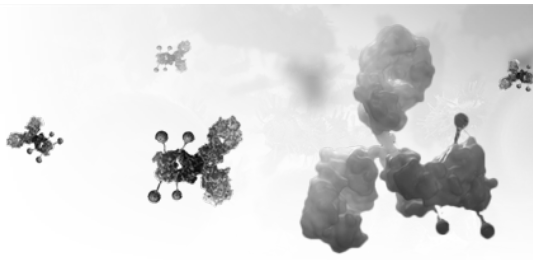

Anti-MCM2 (aa 805-904) polyclonal antibody (DPAB-DC1902)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	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.
Immunogen	MCM2 (AAH07670, 805 a.a. ~ 904 a.a) partial recombinant protein with GST tag. The sequence is TQKFSVMRSMRKTFARYLSFRRDNNELLLFILKQLVAEQVTYQRNRFGAQQDTIEVPEKD LVDKARQINIHNLSAFYDSELFRMNKFSHDLKRKMILQQF
Source/Host	Mouse
Species Reactivity	Human
Conjugate	Unconjugated
Applications	WB (Recombinant protein), ELISA,
Size	50 µl
Buffer	50 % glycerol
Preservative	None
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

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GENE INFORMATION

Gene Name	MCM2 minichromosome maintenance complex component 2 [Homo sapiens (human)]
Official Symbol	MCM2
Synonyms	MCM2; minichromosome maintenance complex component 2; BM28; CCNL1; CDCL1; cdc19; D3S3194; MITOTIN; 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;
Entrez Gene ID	4171
Protein Refseq	NP_004517
UniProt ID	P49736
Chromosome Location	3q21
Pathway	Activation of ATR in response to replication stress; Assembly of the pre-replicative complex; Cell Cycle Checkpoints; Cell cycle
Function	ATP binding; DNA binding; DNA helicase activity; DNA replication origin binding

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