

Human MCM7 Knockdown Cell Lysate

Cat. No. MCM7-239HKCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	WB-validated MCM7 Knockdown HeLa Cell Lysate
Species	Human
Source	HeLa
Description	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 the 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, 4 and 6 proteins possesses DNA helicase activity, and may act as a DNA unwinding enzyme. Cyclin D1-dependent kinase, CDK4, is found to associate with this protein, and may regulate the binding of this protein with the tumorsuppressor protein RB1/RB. Alternatively spliced transcript variants encoding distinct isoforms have been reported.
Form	Cell-Tissue Lysis buffer
Molecular Mass	81 kDa
Notes	Instruction of use: This knockdown cell lysate should be paired with wild-type HeLa cell lysate for use. For Western blotting, we recommend running wild-type and knockdown lysates on the same gel, and loading each well with equal volume and equal amount of total proteins.

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Storage	Store at -20 centigrade for two years.
Concentration	Lot-specific
Shipping	Blue Ice
Components	1 vial of 100 µg WT HeLa cell lysate 1 vial of 100 µg MCM7 KD HeLa cell lysate
Protein Families	Transcription Factors
Protein Pathways	Cell cycle, DNA replication
Lysate QC	RT-qPCR; Western Blotting (WB)

GENE INFORMATION

Gene Name	MCM7 minichromosome maintenance complex component 7 [Homo sapiens (human)]
Official Symbol	MCM7
Synonyms	MCM7; minichromosome maintenance complex component 7; MCM2, MCM7 minichromosome maintenance deficient 7 (S. cerevisiae), minichromosome maintenance deficient (S. cerevisiae) 7; DNA replication licensing factor MCM7; CDC47; CDC47 homolog; homolog of S. cerevisiae Cdc47; minichromosome maintenance deficient 7; MCM2; P85MCM; P1CDC47; PNAS146; P1.1-MCM3;
Gene ID	4176
mRNA Refseq	NM_005916

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Protein Refseq	NP_005907
MIM	600592
UniProt ID	P33993

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