Human MCM6 Knockdown Cell Lysate

Cat. No. MCM6-238HKCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	WB-validated MCM6 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 7 proteins possesses DNA helicase activity, and may act as a DNA unwinding enzyme. The phosphorylation of the complex by CDC2 kinase reduces the helicase activity, suggesting a role in the regulation of DNA replication. Single nucleotide polymorphisms in the intron regions of this gene are associated with differential transcriptional activation of the promoter of the neighboring lactase gene and, thereby, influence lactose intolerance in early adulthood.
Form	Cell-Tissue Lysis buffer
Molecular Mass	93 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

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	knockdown lysates on the same gel, and loading each well with equal volume and equal amount of total proteins.
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 MCM6 KD HeLa cell lysate
Protein Families	Stem cell - Pluripotency, Transcription Factors
Protein Pathways	Cell cycle, DNA replication
Lysate QC	RT-qPCR; Western Blotting (WB)

GENE INFORMATION

Gene Name	MCM6 minichromosome maintenance complex component 6 [Homo sapiens (human)]
Official Symbol	MCM6
Synonyms	MCM6; minichromosome maintenance complex component 6; MCM6 minichromosome maintenance deficient 6 (MIS5 homolog, S. pombe) (S. cerevisiae), minichromosome maintenance deficient (mis5, S. pombe) 6, minichromosome maintenance deficient 6 homolog (S. cerevisiae); DNA replication licensing factor MCM6; Mis5; MIS5 homolog (S.pombe); MIS5 homolog; minichromosome maintenance deficient 6 homolog; minichromosome maintenance deficient (mis5, S. pombe) 6; MCM6 minichromosome maintenance deficient 6 (MIS5 homolog, S.

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	pombe); P105MCM; MCG40308;
Gene ID	4175
mRNA Refseq	NM_005915
Protein Refseq	NP_005906
MIM	601806
UniProt ID	Q14566

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