

## Recombinant Human MCM7 293 Cell Lysate

Cat. No. MCM7-4415HCL Lot. No. (See product label)

### SPECIFICATION

<b>Species</b>	Human
<b>Source</b>	HEK293
<b>Description</b>	Antigen standard for minichromosome maintenance complex component 7 (MCM7), transcript variant 1 is a lysate prepared from HEK293T cells transiently transfected with a TrueORF gene-carrying pCMV plasmid and then lysed in RIPA Buffer. Protein concentration was determined using a colorimetric assay. The antigen control carries a C-terminal Myc/DDK tag for detection.
<b>Components</b>	This product includes 3 vials: 1 vial of gene-specific cell lysate, 1 vial of control vector cell lysate, and 1 vial of loading buffer. Each lysate vial contains 0.1 mg lysate in 0.1 ml (1 mg/ml) of RIPA Buffer (50 mM Tris-HCl pH7.5, 250 mM NaCl, 5 mM EDTA, 50 mM NaF, 1% NP40). The loading buffer vial contains 0.5 ml 2X SDS Loading Buffer (125 mM Tris-Cl, pH6.8, 10% glycerol, 4% SDS, 0.002% Bromophenol blue, 5% beta-mercaptoethanol).
<b>Size</b>	0.1 mg
<b>Storage Instruction</b>	Store at -80°C. Minimize freeze-thaw cycles. After addition of 2X SDS Loading Buffer, the lysates can be stored at -20°C. Product is guaranteed 6 months from the date of shipment.
<b>Applications</b>	ELISA, WB, IP. WB: Mix equal volume of lysates with 2X SDS Loading Buffer. Boil the mixture for 10 min before loading (for membrane protein lysates, incubate the

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mixture at room temperature for 30 min). Load 5 ug lysate per lane.

## GENE INFORMATION

**Gene Name** [MCM7 minichromosome maintenance complex component 7 \[ Homo sapiens \]](#)

**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](#)

**Protein Refseq** [NP\\_005907](#)

**MIM** [600592](#)

**UniProt ID** [P33993](#)

**Chromosome Location** 7q21.3-q22.1

**Pathway** Activation of ATR in response to replication stress, organism-specific biosystem; Activation of the pre-replicative complex, organism-specific biosystem; Assembly of the pre-replicative complex, organism-specific biosystem; Cell Cycle, organism-specific biosystem; Cell Cycle Checkpoints, organism-specific biosystem; Cell Cycle,

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Mitotic, organism-specific biosystem; Cell cycle, organism-specific biosystem;

**Function**

ATP binding; contributes\_to ATP-dependent DNA helicase activity; contributes\_to DNA binding; hydrolase activity; nucleotide binding; protein binding; single-stranded DNA binding;

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