

## Recombinant Human MCM2 293 Cell Lysate

Cat. No. MCM2-4420HCL Lot. No. (See product label)

### SPECIFICATION

<b>Species</b>	Human
<b>Source</b>	HEK293
<b>Description</b>	Antigen standard for minichromosome maintenance complex component 2 (MCM2) 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** [MCM2 minichromosome maintenance complex component 2 \[ Homo sapiens \]](#)

**Official Symbol** MCM2

**Synonyms**

MCM2; minichromosome maintenance complex component 2; CCNL1, CDCL1, MCM2 minichromosome maintenance deficient 2, mitotin (*S. cerevisiae*), minichromosome maintenance deficient (*S. cerevisiae*) 2 (mitotin); DNA replication licensing factor MCM2; BM28; cdc19; D3S3194; KIAA0030; mitotin; cyclin-like 1; nuclear protein BM28; cell division cycle-like 1; minichromosome maintenance protein 2 homolog; minichromosome maintenance deficient 2 (mitotin); MCM2 minichromosome maintenance deficient 2, mitotin; CCNL1; CDCL1; MITOTIN; MGC10606;

**Gene ID** [4171](#)

**mRNA Refseq** [NM\\_004526](#)

**Protein Refseq** [NP\\_004517](#)

**MIM** [116945](#)

**UniProt ID** [P49736](#)

**Chromosome Location** 3q21

**Pathway** [Activation of ATR in response to replication stress, organism-specific biosystem;](#)

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

**Function**

ATP binding; DNA binding; DNA replication origin binding; helicase activity; histone binding; hydrolase activity; metal ion binding; nucleotide binding; protein binding;

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