

Recombinant Human MCM2 293 Cell Lysate

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

SPECIFICATION

Product Overview

Species	Human
Source	HEK293
Description	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.
Components	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).
Size	0.1 mg
Storage Instruction	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.

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Applications 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 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

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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, 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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