

Recombinant Human MCM4 293 Cell Lysate

Cat. No. MCM4-4418HCL Lot. No. (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	HEK293
Description	Antigen standard for minichromosome maintenance complex component 4 (MCM4), 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.
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

[MCM4 minichromosome maintenance complex component 4 \[Homo sapiens \]](#)

Official Symbol

MCM4

Synonyms

MCM4; minichromosome maintenance complex component 4; CDC21, MCM4 minichromosome maintenance deficient 4 (*S. cerevisiae*); DNA replication licensing factor MCM4; CDC54; hCdc21; MGC33310; P1 Cdc21; CDC21 homolog; minichromosome maintenance deficient 4; homolog of *S. pombe* cell division cycle 21; MCM4 minichromosome maintenance deficient 4; CDC21; P1-CDC21;

Gene ID

[4173](#)

mRNA Refseq

[NM_005914](#)

Protein Refseq

[NP_005905](#)

MIM

[602638](#)

UniProt ID

[P33991](#)

Chromosome Location

8q12-q13

Pathway

Activation of ATR in response to replication stress, organism-specific biosystem; Activation of the pre-replicative complex, organism-specific biosystem; Assembly of

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the pre-replicative complex, organism-specific biosystem; C-MYB transcription factor network, organism-specific biosystem; Cell Cycle, organism-specific biosystem; Cell Cycle Checkpoints, organism-specific biosystem; Cell Cycle, Mitotic, organism-specific biosystem;

Function

ATP binding; contributes_to ATP-dependent DNA helicase activity; DNA binding; helicase activity; hydrolase activity; nucleotide binding; protein binding;

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