

Recombinant Human CDC7 293 Cell Lysate

Cat. No. CDC7-7646HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	HEK293
Description	Antigen standard for cell division cycle 7 homolog (<i>S. cerevisiae</i>) (CDC7), 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.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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

CDC7 cell division cycle 7 homolog (*S. cerevisiae*) [*Homo sapiens*]

Official Symbol

CDC7

Synonyms

CDC7; cell division cycle 7 homolog (*S. cerevisiae*); CDC7 (cell division cycle 7, *S. cerevisiae*, homolog) like 1 , CDC7 cell division cycle 7 (*S. cerevisiae*) , CDC7L1, cell division cycle 7 (*S. cerevisiae*); cell division cycle 7-related protein kinase; HsCdc7; Hsk1; huCdc7; CDC7-related kinase; cell division cycle 7-like protein 1; CDC7 (cell division cycle 7, *S. cerevisiae*, homolog)-like 1; CDC7L1; HsCDC7; huCDC7; MGC117361; MGC126237; MGC126238;

Gene ID

8317

mRNA Refseq

NM_001134419

Protein Refseq

NP_001127891

MIM

603311

UniProt ID

O00311

Chromosome Location

1p22

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

Function

ATP binding; kinase activity; metal ion binding; nucleotide binding; protein serine/threonine kinase activity;

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