

## Recombinant Human CDC6 293 Cell Lysate

Cat. No. CDC6-7647HCL Lot. No. (See product label)

### SPECIFICATION

<b>Species</b>	Human
<b>Source</b>	HEK293
<b>Description</b>	Antigen standard for cell division cycle 6 homolog ( <i>S. cerevisiae</i> ) (CDC6) 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

<b>Gene Name</b>	CDC6 cell division cycle 6 homolog ( <i>S. cerevisiae</i> ) [ <i>Homo sapiens</i> ]
<b>Official Symbol</b>	CDC6
<b>Synonyms</b>	CDC6; cell division cycle 6 homolog ( <i>S. cerevisiae</i> ); CDC6 (cell division cycle 6, <i>S. cerevisiae</i> ) homolog , CDC6 cell division cycle 6 homolog ( <i>S. cerevisiae</i> ) , CDC18L; cell division control protein 6 homolog; p62(cdc6); CDC6-related protein; cdc18-related protein; CDC6 cell division cycle 6 homolog; CDC18L; HsCDC6; HsCDC18;
<b>Gene ID</b>	990
<b>mRNA Refseq</b>	NM_001254
<b>Protein Refseq</b>	NP_001245
<b>MIM</b>	602627
<b>UniProt ID</b>	Q99741
<b>Chromosome Location</b>	17q21.3
<b>Pathway</b>	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; Association of licensing factors with the pre-replicative complex, organism-specific biosystem; CDC6 association with the ORC:origin complex, organism-specific biosystem; CDK-

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mediated phosphorylation and removal of Cdc6, organism-specific biosystem; CDT1 association with the CDC6:ORC:origin complex, organism-specific biosystem;

**Function**

ATP binding; chromatin binding; kinase binding; nucleoside-triphosphatase activity; nucleotide binding; protein binding;

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