

# Human CDK2 Knockdown Cell Lysate

Cat. No. CDK2-103HKCL Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	WB-validated CDK2 Knockdown HeLa Cell Lysate
<b>Species</b>	Human
<b>Source</b>	HeLa
<b>Description</b>	<p>This gene encodes a member of a family of serine/threonine protein kinases that participate in cell cycle regulation. The encoded protein is the catalytic subunit of the cyclin-dependent protein kinase complex, which regulates progression through the cell cycle. Activity of this protein is especially critical during the G1 to S phase transition. This protein associates with and regulated by other subunits of the complex including cyclin A or E, CDK inhibitor p21Cip1 (CDKN1A), and p27Kip1 (CDKN1B). Alternative splicing results in multiple transcript variants.</p>
<b>Form</b>	Cell-Tissue Lysis buffer
<b>Molecular Mass</b>	34 kDa
<b>Notes</b>	<p>Instruction of use: This knockdown cell lysate should be paired with wild-type HeLa cell lysate for use. For Western blotting, we recommend running wild-type and knockdown lysates on the same gel, and loading each well with equal volume and equal amount of total proteins.</p>
<b>Storage</b>	Store at -20 centigrade for two years.

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<b>Concentration</b>	Lot-specific
<b>Shipping</b>	Blue Ice
<b>Components</b>	1 vial of 100 µg WT HeLa cell lysate 1 vial of 100 µg CDK2 KD HeLa cell lysate
<b>Protein Families</b>	Druggable Genome, Protein Kinase
<b>Protein Pathways</b>	Cell cycle, Oocyte meiosis, p53 signaling pathway, Pathways in cancer, Progesterone-mediated oocyte maturation, Prostate cancer, Small cell lung cancer
<b>Lysate QC</b>	RT-qPCR; Western Blotting (WB)

## GENE INFORMATION

<b>Gene Name</b>	CDK2 cyclin-dependent kinase 2 [ Homo sapiens (human) ]
<b>Official Symbol</b>	CDK2
<b>Synonyms</b>	CDK2; cyclin-dependent kinase 2; p33 protein kinase; cell division kinase 2; cdc2-related protein kinase; cell division protein kinase 2; p33(CDK2);
<b>Gene ID</b>	1017
<b>mRNA Refseq</b>	NM_001798
<b>Protein Refseq</b>	NP_001789
<b>MIM</b>	116953
<b>UniProt ID</b>	P24941

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