

Human CDK5 Knockdown Cell Lysate

Cat. No. CDK5-104HKCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	WB-validated CDK5 Knockdown HeLa Cell Lysate
Species	Human
Source	HeLa
Description	This gene encodes a proline-directed serine/threonine kinase that is a member of the cyclin-dependent kinase family of proteins. Unlike other members of the family, the protein encoded by this gene does not directly control cell cycle regulation. Instead the protein, which is predominantly expressed at high levels in mammalian postmitotic central nervous system neurons, functions in diverse processes such as synaptic plasticity and neuronal migration through phosphorylation of proteins required for cytoskeletal organization, endocytosis and exocytosis, and apoptosis. In humans, an allelic variant of the gene that results in undetectable levels of the protein has been associated with lethal autosomal recessive lissencephaly-7. Alternative splicing results in multiple transcript variants.
Form	Cell-Tissue Lysis buffer
Molecular Mass	33 kDa
Notes	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.

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Storage	Store at -20 centigrade for two years.
Concentration	Lot-specific
Shipping	Blue Ice
Components	1 vial of 100 µg WT HeLa cell lysate 1 vial of 100 µg CDK5 KD HeLa cell lysate
Protein Families	Druggable Genome, Protein Kinase
Protein Pathways	Alzheimer's disease, Axon guidance
Lysate QC	RT-qPCR; Western Blotting (WB)

GENE INFORMATION

Gene Name	CDK5 cyclin-dependent kinase 5 [Homo sapiens (human)]
Official Symbol	CDK5
Synonyms	CDK5; cyclin-dependent kinase 5; PSSALRE; TPKII catalytic subunit; protein kinase CDK5 splicing; cell division protein kinase 5; serine/threonine-protein kinase PSSALRE; tau protein kinase II catalytic subunit;
Gene ID	1020
mRNA Refseq	NM_001164410
Protein Refseq	NP_001157882
MIM	123831

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UniProt ID

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