

# Human CDK5 Knockdown Cell Lysate

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

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | WB-validated CDK5 Knockdown HeLa Cell Lysate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Source</b>           | HeLa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Description</b>      | <p>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.</p> |
| <b>Form</b>             | Cell-Tissue Lysis buffer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Molecular Mass</b>   | 33 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>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

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|                         |                                                                                |
|-------------------------|--------------------------------------------------------------------------------|
| <b>Storage</b>          | Store at -20 centigrade for two years.                                         |
| <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 CDK5 KD HeLa cell lysate |
| <b>Protein Families</b> | Druggable Genome, Protein Kinase                                               |
| <b>Protein Pathways</b> | Alzheimer's disease, Axon guidance                                             |
| <b>Lysate QC</b>        | RT-qPCR; Western Blotting (WB)                                                 |

## GENE INFORMATION

|                        |                                                                                                                                                                                                                    |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | CDK5 cyclin-dependent kinase 5 [ Homo sapiens (human) ]                                                                                                                                                            |
| <b>Official Symbol</b> | CDK5                                                                                                                                                                                                               |
| <b>Synonyms</b>        | 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; |
| <b>Gene ID</b>         | 1020                                                                                                                                                                                                               |
| <b>mRNA Refseq</b>     | NM_001164410                                                                                                                                                                                                       |
| <b>Protein Refseq</b>  | NP_001157882                                                                                                                                                                                                       |
| <b>MIM</b>             | 123831                                                                                                                                                                                                             |

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**UniProt ID**

Q00535

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