

# Human ADK Knockdown Cell Lysate

**Cat. No.** ADK-323HKCL    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | WB-validated ADK Knockdown HeLa Cell Lysate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Source</b>           | HeLa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Description</b>      | <p>This gene an enzyme which catalyzes the transfer of the gamma-phosphate from ATP to adenosine, thereby serving as a regulator of concentrations of both extracellular adenosine and intracellular adenine nucleotides. Adenosine has widespread effects on the cardiovascular, nervous, respiratory, and immune systems and inhibitors of the enzyme could play an important pharmacological role in increasing intravascular adenosine concentrations and acting as anti-inflammatory agents. Multiple transcript variants encoding different isoforms have been found for this gene.</p> |
| <b>Form</b>             | Cell-Tissue Lysis buffer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Molecular Mass</b>   | 41 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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

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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 ADK KD HeLa cell lysate              |
| <b>Protein Families</b> | Druggable Genome                                                                           |
| <b>Protein Pathways</b> | Metabolic pathways, Purine metabolism                                                      |
| <b>Lysate QC</b>        | RT-qPCR; Western Blotting (WB)                                                             |
| <b>GENE INFORMATION</b> |                                                                                            |
| <b>Gene Name</b>        | ADK adenosine kinase [ Homo sapiens (human) ]                                              |
| <b>Official Symbol</b>  | ADK                                                                                        |
| <b>Synonyms</b>         | ADK; adenosine kinase; adenosine 5 phosphotransferase; AK; adenosine 5-phosphotransferase; |
| <b>Gene ID</b>          | 132                                                                                        |
| <b>mRNA Refseq</b>      | NM_001123                                                                                  |
| <b>Protein Refseq</b>   | NP_001114                                                                                  |
| <b>MIM</b>              | 102750                                                                                     |
| <b>UniProt ID</b>       | P55263                                                                                     |

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