

# Human GRK2 Knockdown Cell Lysate

**Cat. No.** GRK2-349HKCL    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | WB-validated GRK2 Knockdown HeLa Cell Lysate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Source</b>           | HeLa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Description</b>      | <p>This gene encodes a member of the G protein-coupled receptor kinase family of proteins. The encoded protein phosphorylates the beta-adrenergic receptor as well as a wide range of other substrates including non-GPCR cell surface receptors, and cytoskeletal, mitochondrial, and transcription factor proteins. Data from rodent models supports a role for this gene in embryonic development, heart function and metabolism. Elevated expression of this gene has been observed in human patients with heart failure and Alzheimer's disease.</p> |
| <b>Form</b>             | Cell-Tissue Lysis buffer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Molecular Mass</b>   | 80 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 GRK2 KD HeLa cell lysate                                                                                      |
| <b>Protein Families</b> | Druggable Genome, Protein Kinase                                                                                                                                    |
| <b>Protein Pathways</b> | Chemokine signaling pathway, Endocytosis                                                                                                                            |
| <b>Lysate QC</b>        | RT-qPCR; Western Blotting (WB)                                                                                                                                      |
| <b>GENE INFORMATION</b> |                                                                                                                                                                     |
| <b>Gene Name</b>        | GRK2 G protein-coupled receptor kinase 2 [ Homo sapiens (human) ]                                                                                                   |
| <b>Official Symbol</b>  | GRK2                                                                                                                                                                |
| <b>Synonyms</b>         | GRK2; G protein-coupled receptor kinase 2; BARK1; ADRBK1; BETA-ARK1; beta-adrenergic receptor kinase 1; adrenergic beta receptor kinase 1; beta-ARK-1; EC 2.7.11.15 |
| <b>Gene ID</b>          | 156                                                                                                                                                                 |
| <b>mRNA Refseq</b>      | NM_001619                                                                                                                                                           |
| <b>Protein Refseq</b>   | NP_001610                                                                                                                                                           |
| <b>MIM</b>              | 109635                                                                                                                                                              |
| <b>UniProt ID</b>       | P25098                                                                                                                                                              |

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