# Human PAK2 Knockdown Cell Lysate

**Cat. No.** PAK2-260HKCL **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | WB-validated PAK2 Knockdown HeLa Cell Lysate |
| **Species** | Human |
| **Source** | HeLa |
| **Description** | The p21 activated kinases (PAK) are critical effectors that link Rho GTPases to cytoskeleton reorganization and nuclear signaling. The PAK proteins are a family of serine/threonine kinases that serve as targets for the small GTP binding proteins, CDC42 and RAC1, and have been implicated in a wide range of biological activities. The protein encoded by this gene is activated by proteolytic cleavage during caspase-mediated apoptosis, and may play a role in regulating the apoptotic events in the dying cell. |
| **Form** | Cell-Tissue Lysis buffer |
| **Molecular Mass** | 58 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. |
| **Storage** | Store at -20 centigrade for two years. |

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| **Concentration** | Lot-specific |
| **Shipping** | Blue Ice |
| **Components** | 1 vial of 100 µg WT HeLa cell lysate 1 vial of 100 µg PAK2 KD HeLa cell lysate |
| **Protein Families** | Druggable Genome, Protein Kinase |
| **Protein Pathways** | Axon guidance, ErbB signaling pathway, Focal adhesion, MAPK signaling pathway, Regulation of actin cytoskeleton, Renal cell carcinoma, T cell receptor signaling pathway |
| **Lysate QC** | RT-qPCR; Western Blotting (WB) |

## GENE INFORMATION

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| **Gene Name** | PAK2 p21 protein (Cdc42/Rac)-activated kinase 2 [ Homo sapiens (human) ] |
| **Official Symbol** | PAK2 |
| **Synonyms** | PAK2; p21 protein (Cdc42/Rac)-activated kinase 2; p21 (CDKN1A) activated kinase 2; serine/threonine-protein kinase PAK 2; PAK65; PAKgamma; S6/H4 kinase; p58; PAK-2; gamma-PAK; p21-activated kinase 2; p21 (CDKN1A)-activated kinase 2; |
| **Gene ID** | 5062 |
| **mRNA Refseq** | NM_002577 |
| **Protein Refseq** | NP_002568 |
| **MIM** | 605022 |

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| **UniProt ID** | Q13177 |

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