

## Active Recombinant Human HIPK1, GST-tagged

**Cat. No.** HIPK1-1413H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant human HIPK1 (156-555) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Source</b>           | Sf9 Cells                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>ProteinLength</b>    | 156-555 aa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Description</b>      | HIPK1 or homeodomain-interacting protein kinase 1 is a ser/thr protein kinase and a member of the HIPK family. HIPK 1 is a nuclear kinase that phosphorylates homeodomain transcription factors. HIPK1 phosphorylates DAXX and this leads to its relocalization and subsequent decrease in transcriptional repression activity. HIPK1also interacts with p53 and phosphorylates it on serine residues. HIPK 1 expression is elevated in breast cancer cell lines and embryonic fibroblasts from HIPK 1-null mice show more susceptibility to apoptosis induced by DNA damage. |
| <b>Form</b>             | Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 0.25mM DTT, 0.1mM EGTA, 0.1mM EDTA, 0.1mM PMSF, 25% glycerol.                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Bio-activity</b>     | 79 nmol/min/mg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Molecular Mass</b>   | ~71 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Purity</b>           | >90%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

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|                            |                                                                                                                                                                                                                                                                             |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Applications</b>        | Kinase Assay, Western Blot                                                                                                                                                                                                                                                  |
| <b>Storage</b>             | Store at –70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. Avoid freeze/thaw cycles.                                                                                                            |
| <b>Concentration</b>       | 0.1µg/µl                                                                                                                                                                                                                                                                    |
| <b>GENE INFORMATION</b>    |                                                                                                                                                                                                                                                                             |
| <b>Gene Name</b>           | HIPK1 homeodomain interacting protein kinase 1 [ Homo sapiens ]                                                                                                                                                                                                             |
| <b>Official Symbol</b>     | HIPK1                                                                                                                                                                                                                                                                       |
| <b>Synonyms</b>            | HIPK1; homeodomain interacting protein kinase 1; homeodomain-interacting protein kinase 1; KIAA0630; MGC26642; MGC33446; MGC33548; Myak; Nbak2; nuclear body-associated kinase 2; nuclear body associated kinase 2b; homeodomain interacting protein kinase 1-like protein; |
| <b>Gene ID</b>             | 204851                                                                                                                                                                                                                                                                      |
| <b>mRNA Refseq</b>         | NM_152696                                                                                                                                                                                                                                                                   |
| <b>Protein Refseq</b>      | NP_689909                                                                                                                                                                                                                                                                   |
| <b>MIM</b>                 | 608003                                                                                                                                                                                                                                                                      |
| <b>UniProt ID</b>          | Q86Z02                                                                                                                                                                                                                                                                      |
| <b>Chromosome Location</b> | 1p13.1                                                                                                                                                                                                                                                                      |

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**Function**

ATP binding; DNA binding; nucleotide binding; protein binding; protein serine/threonine kinase activity;

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