

## Active Recombinant Human MINK1, GST-tagged

**Cat. No.** MINK1-1431H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
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| <b>Product Overview</b> | Recombinant human MINK1 (1-320) was expressed by baculovirus in Sf9 insect cells using a N-terminal GST tag.                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Source</b>           | Sf9 Cells                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>ProteinLength</b>    | 1-320 aa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Description</b>      | MINK1 is a member of the germinal center family of kinases that are homologous to the Ste20 family and regulate a wide variety of cellular processes, including cell morphology, cytoskeletal rearrangement, and survival. Overexpression of kinase-dead mutants of MINK1 leads to enhanced cell spreading, actin stress fiber formation, adhesion to extracellular matrix and decreased cell motility and invasion. MINK is activated after Ras induction via a mechanism involving reactive oxygen species and mediates stimulation of p38 MAPK downstream of the Raf/ERK pathway. |
| <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>     | 19 nmol/min/mg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Molecular Mass</b>   | ~61 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>           | MINK1 misshapen-like kinase 1 [ Homo sapiens ]                                                                                                                                                                                                                                                                                                                |
| <b>Official Symbol</b>     | MINK1                                                                                                                                                                                                                                                                                                                                                         |
| <b>Synonyms</b>            | MINK1; misshapen-like kinase 1; misshapen like kinase 1 (zebrafish); B55; MAP4K6; MINK; misshapen/NIK related kinase; YSK2; ZC3; MEKKK 6; MEK kinase kinase 6; GCK family kinase MINK; misshapen/NIK-related kinase; MAPK/ERK kinase kinase 6; serine/threonine protein kinase; mitogen-activated protein kinase kinase kinase 6; hMINK; hMINKbeta; MGC21111; |
| <b>Gene ID</b>             | 50488                                                                                                                                                                                                                                                                                                                                                         |
| <b>mRNA Refseq</b>         | NM_001024937                                                                                                                                                                                                                                                                                                                                                  |
| <b>Protein Refseq</b>      | NP_001020108                                                                                                                                                                                                                                                                                                                                                  |
| <b>MIM</b>                 | 609426                                                                                                                                                                                                                                                                                                                                                        |
| <b>UniProt ID</b>          | Q8N4C8                                                                                                                                                                                                                                                                                                                                                        |
| <b>Chromosome Location</b> | 17p13.2                                                                                                                                                                                                                                                                                                                                                       |

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|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Pathway</b>  | Insulin Signaling, organism-specific biosystem; MAPK signaling pathway, organism-specific biosystem;                                                  |
| <b>Function</b> | ATP binding; nucleotide binding; protein binding; protein kinase activity; protein serine/threonine kinase activity; small GTPase regulator activity; |

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