

# Recombinant Mouse Mknk2 Protein, Myc/DDK-tagged

**Cat. No.** Mknk2-4084M    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
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| <b>Product Overview</b> | Purified recombinant protein of mouse full-length MAP kinase-interacting serine/threonine kinase 2 (Mknk2), with C-terminal MYC/DDK tag, expressed in HEK293T cells.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Species</b>          | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Description</b>      | The protein encoded by this gene is a serine/threonine-protein kinase, which is targeted by both the extracellular signal-regulated kinase and p38 mitogen-activated protein kinase pathways. This enzyme targets several substrates including eukaryotic translation initiation factor 4E and mammalian target of rapamycin, which are negatively regulated by its phosphorylation. Null mutant mice do not exhibit developmental or reproductive defects. However, mice null for both this protein and mitogen-activated protein kinase-interacting serine/threonine protein kinase 1 have delayed tumor development in phosphatase and tensin homolog mutant mice, indicating an oncogenic function for this gene in tumor development. |
| <b>Molecular Mass</b>   | 46.7 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Purity</b>           | > 80% as determined by SDS-PAGE and Coomassie blue staining                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Stability</b>        | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

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| <b>Storage</b>          | Store at -80 centigrade after receiving vials.                                                                                                                                                                                                               |
| <b>Concentration</b>    | >50 µg/mL as determined by microplate BCA method                                                                                                                                                                                                             |
| <b>Storage Buffer</b>   | 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.                                                                                                                                                                                                        |
| <b>GENE INFORMATION</b> |                                                                                                                                                                                                                                                              |
| <b>Gene Name</b>        | Mknk2 MAP kinase-interacting serine/threonine kinase 2 [ Mus musculus (house mouse) ]                                                                                                                                                                        |
| <b>Official Symbol</b>  | Mknk2                                                                                                                                                                                                                                                        |
| <b>Synonyms</b>         | MKNK2; MAP kinase-interacting serine/threonine kinase 2; MAP kinase-interacting serine/threonine-protein kinase 2; MAPK signal-integrating kinase 2; G protein-coupled receptor kinase 7; MAP kinase signal-integrating kinase 2; Mnk2; Gprk7; 2010016G11Rik |
| <b>Gene ID</b>          | 17347                                                                                                                                                                                                                                                        |
| <b>mRNA Refseq</b>      | NM_021462                                                                                                                                                                                                                                                    |
| <b>Protein Refseq</b>   | NP_067437                                                                                                                                                                                                                                                    |
| <b>UniProt ID</b>       | Q8CDB0                                                                                                                                                                                                                                                       |

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