

## Recombinant Mouse Stk24 Protein, Myc/DDK-tagged

Cat. No. Stk24-6185M Lot. No. (See product label)

### SPECIFICATION

**Product Overview** Purified recombinant protein of mouse full-length serine/threonine kinase 24 (Stk24), with C-terminal MYC/DDK tag, expressed in HEK293T cells.

**Species** Mouse

**Source** HEK293

**Description** Serine/threonine-protein kinase that acts on both serine and threonine residues and promotes apoptosis in response to stress stimuli and caspase activation. Mediates oxidative-stress-induced cell death by modulating phosphorylation of JNK1-JNK2 (MAPK8 and MAPK9), p38 (MAPK11, MAPK12, MAPK13 and MAPK14) during oxidative stress. Plays a role in a staurosporine-induced caspase-independent apoptotic pathway by regulating the nuclear translocation of AIFM1 and ENDOG and the DNase activity associated with ENDOG. Phosphorylates STK38L on 'Thr-442' and stimulates its kinase activity. In association with STK26 negatively regulates Golgi reorientation in polarized cell migration upon RHO activation. Regulates also cellular migration with alteration of PTPN12 activity and PXN phosphorylation: phosphorylates PTPN12 and inhibits its activity and may regulate PXN phosphorylation through PTPN12. Acts as a key regulator of axon regeneration in the optic nerve and radial nerve.

**Molecular Mass** 48 kDa

**Purity** > 80% as determined by SDS-PAGE and Coomassie blue staining

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<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.
<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.

## GENE INFORMATION

<b>Gene Name</b>	Stk24 serine/threonine kinase 24 [ <i>Mus musculus</i> (house mouse) ]
<b>Official Symbol</b>	Stk24
<b>Synonyms</b>	STK24; serine/threonine kinase 24 (STE20 homolog, yeast); serine/threonine-protein kinase 24; STE20-like kinase MST3; mammalian sterile twenty 3 kinase; mammalian STE20-like protein kinase 3; Mst3; MST-3; C76483; MGC6330; 1810013H02Rik
<b>Gene ID</b>	223255
<b>mRNA Refseq</b>	NM_145465
<b>Protein Refseq</b>	NP_663440
<b>UniProt ID</b>	Q99KH8

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