

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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Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 µg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name	Stk24 serine/threonine kinase 24 [<i>Mus musculus</i> (house mouse)]
Official Symbol	Stk24
Synonyms	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
Gene ID	223255
mRNA Refseq	NM_145465
Protein Refseq	NP_663440
UniProt ID	Q99KH8

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