Recombinant Mouse Mapk7 Protein, Myc/DDK-tagged

Cat. No. Mapk7-3944M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length mitogen-activated protein kinase 7 (Mapk7), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Plays a role in various cellular processes such as proliferation, differentiation and cell survival. The upstream activator of MAPK7 is the MAPK kinase MAP2K5. Upon activation, it translocates to the nucleus and phosphorylates various downstream targets including MEF2C. EGF activates MAPK7 through a Ras-independent and MAP2K5-dependent pathway. May have a role in muscle cell differentiation. May be important for endothelial function and maintenance of blood vessel integrity. MAP2K5 and MAPK7 interact specifically with one another and not with MEK1/ERK1 or MEK2/ERK2 pathways. Phosphorylates SGK1 at Ser-78 and this is required for growth factor-induced cell cycle progression. Involved in the regulation of p53/TP53 by disrupting the PML-MDM2 interaction.
Molecular Mass	88.2 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	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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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	Mapk7 mitogen-activated protein kinase 7 [Mus musculus (house mouse)]
Official Symbol	Mapk7
Synonyms	MAPK7; mitogen-activated protein kinase 7; BMK-1; ERK-5; MAPK 7; MAP kinase 7; big MAP kinase 1; mitogen-activated kinase 7; mitogen activated protein kinase 7; extracellular signal regulated kinase 5; extracellular signal-regulated kinase 5; BMK1; ERK5; PRKM7; Erk5-T
Gene ID	23939
mRNA Refseq	NM_011841
Protein Refseq	NP_035971
UniProt ID	Q9WVS8

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