Recombinant Mouse Mob1a Protein, Myc/DDK-tagged

Cat. No. Mob1a-4104M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length MOB kinase activator 1A (Mob1a), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Activator of LATS1/2 in the Hippo signaling pathway which plays a pivotal role in organ size control and tumor suppression by restricting proliferation and promoting apoptosis. The core of this pathway is composed of a kinase cascade wherein STK3/MST2 and STK4/MST1, in complex with its regulatory protein SAV1, phosphorylates and activates LATS1/2 in complex with its regulatory protein MOB1, which in turn phosphorylates and inactivates YAP1 oncoprotein and WWTR1/TAZ. Phosphorylation of YAP1 by LATS1/2 inhibits its translocation into the nucleus to regulate cellular genes important for cell proliferation, cell death, and cell migration. Stimulates the kinase activity of STK38 and STK38L. Acts cooperatively with STK3/MST2 to activate STK38.
Molecular Mass	25.1 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	Mob1a MOB kinase activator 1A [Mus musculus (house mouse)]
Official Symbol	Mob1a
Synonyms	MOB1A; MOB kinase activator 1A; mob1 homolog 1B; mps one binder kinase activator-like 1B; MOB1, Mps One Binder kinase activator-like 1B; MOB1; MOB4B; Mobk1b; Mobkl1b; MGC6884; 4022402H07Rik
Gene ID	232157
mRNA Refseq	NM_145571
Protein Refseq	NP_663546
UniProt ID	Q921Y0

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