

Recombinant Mouse Mapkap1 Protein, Myc/DDK-tagged

Cat. No. Mapkap1-3949M Lot. No. (See product label)

SPECIFICATION

Product Overview Purified recombinant protein of mouse full-length mitogen-activated protein kinase associated protein 1 (Mapkap1), with C-terminal MYC/DDK tag, expressed in HEK293T cells.

Species Mouse

Source HEK293

Description Subunit of mTORC2, which regulates cell growth and survival in response to hormonal signals. mTORC2 is activated by growth factors, but, in contrast to mTORC1, seems to be nutrient-insensitive. mTORC2 seems to function upstream of Rho GTPases to regulate the actin cytoskeleton, probably by activating one or more Rho-type guanine nucleotide exchange factors. mTORC2 promotes the serum-induced formation of stress-fibers or F-actin. mTORC2 plays a critical role in AKT1 'Ser-473' phosphorylation, which may facilitate the phosphorylation of the activation loop of AKT1 on 'Thr-308' by PDK1 which is a prerequisite for full activation. mTORC2 regulates the phosphorylation of SGK1 at 'Ser-422'. mTORC2 also modulates the phosphorylation of PRKCA on 'Ser-657'. Within mTORC2, MAPKAP1 is required for complex formation and mTORC2 kinase activity. MAPKAP1 inhibits MAP3K2 by preventing its dimerization and autophosphorylation. Inhibits HRAS and KRAS signaling. Enhances osmotic stress-induced phosphorylation of ATF2 and ATF2-mediated transcription. Isoform 1 is involved in ciliogenesis, regulates cilia length through its interaction with CCDC28B independently of mTORC2 complex.

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Molecular Mass	59.5 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.
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	Mapkap1 mitogen-activated protein kinase associated protein 1 [Mus musculus (house mouse)]
Official Symbol	Mapkap1
Synonyms	MAPKAP1; mitogen-activated protein kinase associated protein 1; target of rapamycin complex 2 subunit MAPKAP1; TORC2 subunit MAPKAP1; SAPK-interacting protein 1; stress-activated map kinase-interacting protein 1; mitogen activated protein kinase associated protein 1; mitogen-activated protein kinase 2-associated protein 1; Sin1; AI591529; D230039K05Rik
Gene ID	227743
mRNA Refseq	NM_177345
Protein Refseq	NP_796319

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UniProt ID

Q8BKH7

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