Recombinant Mouse Ulk1 Protein, Myc/DDK-tagged

Cat. No. Ulk1-6830M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length unc-51 like kinase 1 (Ulk1), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Serine/threonine-protein kinase involved in autophagy in response to starvation. Acts upstream of phosphatidylinositol 3-kinase PIK3C3 to regulate the formation of autophagophores, the precursors of autophagosomes. Part of regulatory feedback loops in autophagy: acts both as a downstream effector and negative regulator of mammalian target of rapamycin complex 1 (mTORC1) via interaction with RPTOR. Activated via phosphorylation by AMPK and also acts as a regulator of AMPK by mediating phosphorylation of AMPK subunits PRKAA1, PRKAB2 and PRKAG1, leading to negatively regulate AMPK activity. May phosphorylate ATG13/KIAA0652 and RPTOR; however such data need additional evidences. Plays a role early in neuronal differentiation and is required for granule cell axon formation. May also phosphorylate SESN2 and SQSTM1 to regulate autophagy. Phosphorylates FLCN, promoting autophagy.
Molecular Mass	112.9 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

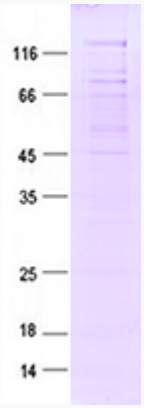
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	handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 μg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name	Ulk1 unc-51 like kinase 1 [Mus musculus (house mouse)]
Official Symbol	Ulk1
Synonyms	ULK1; Unc-51 like kinase 1 (C. elegans); serine/threonine-protein kinase ULK1; unc-51-like kinase 1; serine/threonine-protein kinase Unc51.1; Unc51.1; AU041434; mKIAA0722
Gene ID	22241
mRNA Refseq	NM_009469
Protein Refseq	NP_033495
UniProt ID	O70405

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SDS-PAGE	

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