

Product datasheet for TP511538

Ulk1 (NM_009469) Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse unc-51 like kinase 1 (Ulk1), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR211538 representing NM_009469 Red=Cloning site Green=Tags(s)

MEPGRGGVETVVGKFEFSRKDLIGHGAFVFKGRHREKHDLEVAVKCNKKNLAKSQTLGKEIKLKE
KHENIVALYDFQEMANSVYLVMEYCNGGDLADYLHTMRTLSEDTVRLFLQQIAGAMRLLHSGIHRDLK
PQNILLSNPGGRRANPSNIRVKIADFGFARYLQSNMMAATLCGSPMYMAPEVIMSQHYDGKADLWSIGTI
VYQCLTGKAPFQASSPQDLRLFYEKNKTLVPAIPRETSAPLRQLLLALLQRNHKDRMDFDEFFHHPFLDA
STPIKKSPVPVPSYPSSGSGSSSSSSASHLASPPSLGEMPQLQKTLTSPADAAGFLQGSRDSSGSSKD
SCDTRDDFVMVPAQFPGDLVAEASAKPPDSSLCSGSSLVASAGLESHGRTPSPSPTCSSPSPSGRPGP
FSSNRYGASVPIPVPTQVHNYQRIEQNLQSPQQQTARSSAIRRSGSTSPGLFGRASPPSHTDGAMLA
RKLSLGGGRPYTPSPQVGTIPERPSWSRVSPQGADVRVGRSPRPGSSVPEHSPRTTGLGCRLHSAPNLS
DFHVRPKLPKPTDPLGATFSPQTSAPQPCPLQSCRPLRGSPKLPDFLQRSPLPILGSPTKAGPSF
DFPKTPSSQNLLTLARQGVVMTPPRNRRLPDLSEASPFHGQQLGSLRPAEDTRGPFGRSFSTSRITDL
LLKAAFGTQASDSGSTDSLQEKPMIAPSAGFGGTLHPGARGGGASSPAPVVFTVGSPPSGATPPQSTRT
RMFVSGSSSLGSTGSSSARHLVPGACGEAPELSAPGHCCSLADPLAANLEGAVTFEAPDLPEETLMEQE
HTETLHSLRFTLAFQAQVLEIAALKGSASEAAGGPEYQLQESVWADQISQLSREWGFAEQLVLYLKVAEL
LSSGLQTAIDQIRAGKLCSSVTKQVRRRLNELYKASVSCQGLSLRLQRFFLDKQRLLDGIHGVT AERL
ILSHAVQMVQSAALDEMFAQHREGCVPRYHKALLLLEGLQHTLTDQADIENIAKCKLCIERLSALLSGVY
A

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-MYC/DDK
Predicted MW:	112.9 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol



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Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C after receiving vials.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_033495
Locus ID:	22241
UniProt ID:	O70405 , A0A0R4J0B3
RefSeq Size:	5215
Cytogenetics:	5 F
RefSeq ORF:	3153
Synonyms:	AU041434; mKIAA0722; Unc51.1
Summary:	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 (PubMed:25040165). [UniProtKB/Swiss-Prot Function]

Product images:



Coomassie blue staining of purified Ulk1 protein (Cat# TP511538). The protein was produced from HEK293T cells transfected with Ulk1 cDNA clone (Cat# [MR211538]) using MegaTran 2.0 (Cat# [TT210002]).