Recombinant Human Unc-51-Like Kinase 2 (C. elegans), GST-tagged

Cat. No. ULK2-1115H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human ULK2 (1-478) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Sf10 Insect Cell
ProteinLength	1-478 a.a.
Description	ULK2 is a serine/threonine protein kinase that plays critical role during initial stages of autophagy which is a vital response to nutrient starvation. Mammalian Atg13 binds ULK2 and mediates the interaction of the ULK protein with FIP200. The binding of Atg13 stabilizes and activates ULK and facilitates the phosphorylation of FIP200 by ULK. The ULK-Atg13-FIP200 complex is a direct target of mTOR and important regulator of autophagy in response to mTORsignalling. Yeast 2-hybrid assays showed the C-terminus of ULK2 binds the C-terminus of SynGAP, a negative regulator of Ras that is associated with neural development.
Applications	Kinase Assay; Western Blot
Molecular Weight	98kDa
Expression System	Sf9 insect cells using baculovirus

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Form	Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 0.25 mM DTT, 0.1mM EGTA, 0.1mM EDTA,0.1mM PMSF, 25% glycerol.
Specific Activity	102nmol/min/mg
Purity	>80%
Concentration	0.1 ug/ul
Sequences	1-478
Storage	Store product at -70oC. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles. Product shipped on dry ice.

GENE INFORMATION

Gene Name	ULK2 unc-51-like kinase 2 (C. elegans) [Homo sapiens]
Official Symbol	ULK2
Synonyms	ULK2; unc-51-like kinase 2 (C. elegans); Unc51.2; KIAA0623; ULK2; unc-51-like kinase 2; EC 2.7.11.1; EC 2.7.11.1; OTTHUMP00000065847; unc-51 (C. elegans)-like kinase 2; ATG1B; serine/threonine-protein kinase ULK2; OTTHUMP00000065848
Gene ID	9706
mRNA Refseq	NM_014683

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Protein Refseq	NP_055498
MIM	608650
UniProt ID	Q8IYT8
Chromosome Location	17p11.2
Pathway	Regulation of autophagy; mTOR signaling pathway
Function	ATP binding; nucleotide binding; protein binding; protein serine/threonine kinase activity; transferase activity
PDB rendering based on 1ab2.	

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