

## Product datasheet for **TA335767**

### ULK1 Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB
Reactivity:	Human
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	The immunogen for Anti-ULK1 Antibody is: synthetic peptide directed towards the N-terminal region of Human ULK1. Synthetic peptide located within the following region: PEVIMSQHYDGGKADLWSIGTIVYQCLTGKAPFQASSPQDLRLFYEKNTL
Formulation:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose. <i>Note that this product is shipped as lyophilized powder to China customers.</i>
Purification:	Affinity Purified
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	112 kDa
Gene Name:	unc-51 like autophagy activating kinase 1
Database Link:	<a href="#">NP_003556</a> <a href="#">Entrez Gene 8408 Human</a> <a href="#">O75385</a>



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**Background:**

ULK1 is a serine/threonine-protein kinase involved in autophagy in response to starvation. It 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. It is 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. It may phosphorylate ATG13/KIAA0652 and RPTOR; however such data need additional evidences and plays a role early in neuronal differentiation and is required for granule cell axon formation.

**Synonyms:**

ATG1; ATG1A; hATG1; UNC51; Unc51.1

**Note:**

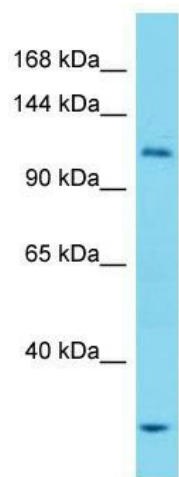
Immunogen Sequence Homology: Dog: 100%; Pig: 100%; Rat: 100%; Horse: 100%; Human: 100%; Mouse: 100%; Bovine: 100%; Rabbit: 100%; Zebrafish: 100%; Guinea pig: 100%

**Protein Families:**

Druggable Genome, Protein Kinase

**Protein Pathways:**

mTOR signaling pathway, Regulation of autophagy

**Product images:**

Host: Rabbit; Target Name: ULK1; Sample Tissue: Thymus Tumor lysates; Antibody Dilution: 1.0 ug/ml