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# Product datasheet for TA383095

## **ULK1 Rabbit Polyclonal Antibody**

## Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB,1:500 - 1:2000
Reactivity:	Human, Mouse
Modifications:	Phospho S638
Host:	Rabbit
lsotype:	IgG
Clonality:	Polyclonal
Immunogen:	A synthetic phosphorylated peptide around S638 of human Phospho-ULK1-S638.
Formulation:	Buffer: PBS with 0.02% sodium azide,50% glycerol,pH7.3.
Concentration:	lot specific
Purification:	Affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C. Avoid freeze / thaw cycles.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	150kDa
Gene Name:	unc-51 like autophagy activating kinase 1
Database Link:	<u>Entrez Gene 8408 Human</u> <u>O75385</u>



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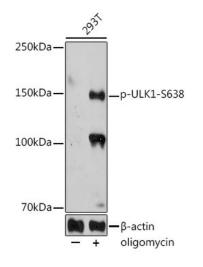
#### **GRIGENE** ULK1 Rabbit Polyclonal Antibody – TA383095

Background:Serine/threonine-protein kinase involved in autophagy in response to starvation. Acts<br/>upstream of phosphatidylinositol 3-kinase PIK3C3 to regulate the formation of<br/>autophagophores, the precursors of autophagosomes. Part of regulatory feedback loops in<br/>autophagy: acts both as a downstream effector and negative regulator of mammalian target<br/>of rapamycin complex 1 (mTORC1 via interaction with RPTOR. Activated via phosphorylation<br/>by AMPK and also acts as a regulator of AMPK by mediating phosphorylation of AMPK<br/>subunits PRKAA1, PRKAB2 and PRKAG1, leading to negatively regulate AMPK activity. May<br/>phosphorylate ATG13/KIAA0652 and RPTOR; however such data need additional evidences.<br/>Plays a role early in neuronal differentiation and is required for granule cell axon formation.<br/>May also phosphorylate SESN2 and SQSTM1 to regulate autophagy. Phosphorylates FLCN,<br/>promoting autophagy. Phosphorylates AMBRA1 from the cytoskeletal docking site to induce autophagosome nucleation.

Synonyms:

ATG1; FLJ38455; FLJ46475; KIAA0722; UNC51; Unc51.1

### **Product images:**



Western blot analysis of extracts of 293T cells, using Phospho-ULK1-S638 antibody (TA383095) at 1:1000 dilution.293T cells were treated by oligomycin (0.5 uM) at 37°C for 30 minutes. |Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) at 1:10000 dilution. |Lysates/proteins: 25ug per lane. |Blocking buffer: 3% nonfat dry milk in TBST. |Detection: ECL Basic Kit . |Exposure time: 180s.

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