

Product datasheet for TA383092

ULK1 Rabbit Polyclonal Antibody

Product data:

OriGene Technologies, Inc.

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Flouder data.	
Product Type:	Primary Antibodies
Applications:	ICC/IF, WB
Recommended Dilution:	WB,1:500 - 1:1000 IF,1:10 - 1:100
Reactivity:	Human, Mouse, Rat
Modifications:	Unmodified
Host:	Rabbit
lsotype:	lgG
Clonality:	Polyclonal
Immunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 400-499 of human ULK1 (NP_003556.1).
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:	112kDa
Gene Name:	unc-51 like autophagy activating kinase 1
Database Link:	<u>Entrez Gene 8408 Human</u> <u>O75385</u>



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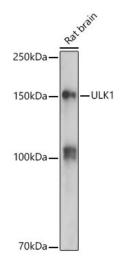
GRIGENE ULK1 Rabbit Polyclonal Antibody – TA383092

Background: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. Phosphorylates AMBRA1 from the cytoskeletal docking site to induce autophagosome nucleation.

Synonyms:

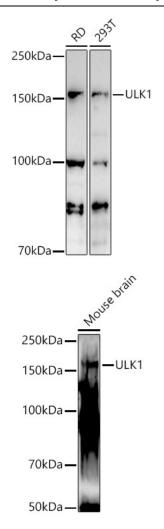
ATG1; FLJ38455; FLJ46475; KIAA0722; UNC51; Unc51.1

Product images:



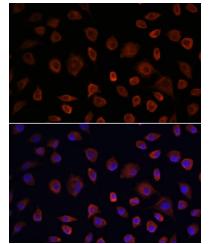
Western blot analysis of extracts of Rat brain, using ULK1 antibody (TA383092) at 1:500 dilution. | Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) at 1:10000 dilution. | Lysates/proteins: 25ug per lane. | Blocking buffer: 3% nonfat dry milk in TBST. | Detection: ECL Enhanced Kit . | Exposure time: 180s.

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Western blot analysis of extracts of various cell lines, using ULK1 antibody (TA383092) at 1:1000 dilution. | 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 Enhanced Kit . | Exposure time: 180s.

Western blot analysis of extracts of Mouse brain, using ULK1 antibody (TA383092) at 1:1000 dilution. |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 Enhanced Kit . |Exposure time: 120s.



Immunofluorescence analysis of L929 cells using ULK1 antibody (TA383092) at dilution of 1:100. Blue: DAPI for nuclear staining.

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