

## Product datasheet for **TA319746**

### ULK1 Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IF, IHC, WB
Recommended Dilution:	WB: 1 ug/mL
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	ULK1 antibody was raised against a 16 amino acid peptide near the center of human ULK1 .
Formulation:	ULK1 Antibody is supplied in PBS containing 0.02% sodium azide.
Concentration:	1ug/ul
Purification:	ULK1 Antibody is affinity chromatography purified via peptide column.
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	Predicted: 116 kDa; Observed: 105 kDa
Gene Name:	unc-51 like autophagy activating kinase 1
Database Link:	<a href="#">NP_003556</a> <a href="#">Entrez Gene 22241 MouseEntrez Gene 360827 RatEntrez Gene 8408 Human O75385</a>
Background:	ULK1 Antibody: ULK1, also known as ATG1, is a key serine/threonine protein kinase probably acting at the most upstream step of autophagosome formation. Knockout of ULK1 results in a severe defect in the autophagy pathway. ULK1 is highly conserved among eukaryotes, and are the Unc-51-like kinases, ULK1 and ULK2 in mammals. ULK1 is ubiquitously expressed and involved in autophagy in response to starvation. It is the target of the TOR kinase signaling pathway that regulates autophagy through the control of phosphorylation status of ATG13. ULK1 also plays a role early in neuronal differentiation.
Synonyms:	ATG1; ATG1A; hATG1; UNC51; Unc51.1

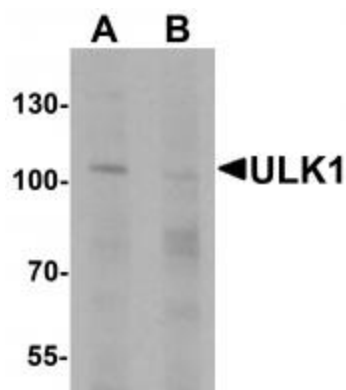


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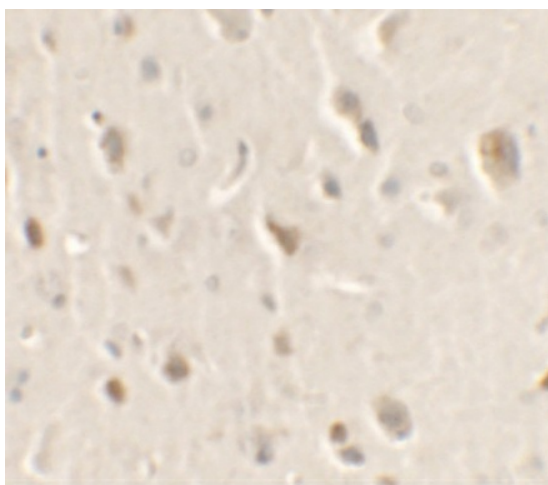
Protein Families: Druggable Genome, Protein Kinase

Protein Pathways: mTOR signaling pathway, Regulation of autophagy

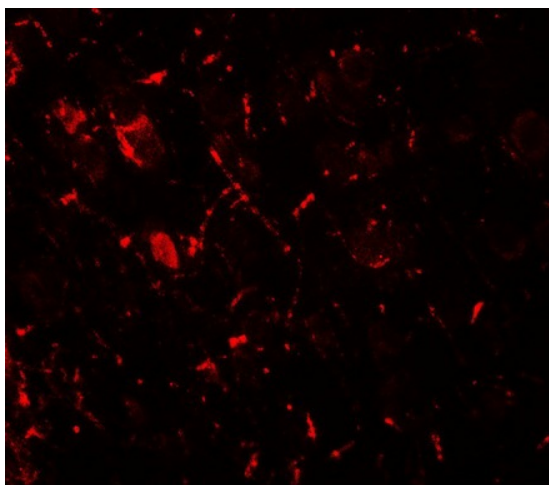
### Product images:



Western blot analysis of ULK1 in rat brain tissue lysate with ULK1 antibody at 1 ug/mL in (A) the absence and (B) the presence of blocking peptide.



Immunohistochemistry of ULK1 in rat brain tissue with ULK1 antibody at 2.5 ug/mL.



Immunofluorescence of ULK1 in rat brain tissue with ULK1 antibody at 20 ug/mL.