Datasheet for 600-401-FU4

ULK1 Antibody

Overview

Description:	Anti-ULK1 (RABBIT) Antibody - 600-401-FU4
Item No.:	600-401-FU4
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit

Product Details

Background:	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:	ULK1 Antibody, ATG1, ATG1A, UNC51, hATG1, Unc51.1, KIAA0722, Autophagy-related protein 1 homolog, ATG1
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	ULK1
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-ULK1 antibody was prepared from whole rabbit serum produced by repeated immunizations with a 16 amino acid peptide near the internal region of human ULK1.

Purity/Specificity:	Anti-ULK1 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Two alternatively spliced transcript variants encoding different isoforms have been identified. ULK1 antibody is predicted to not cross-react with ULK2.
Relevant Links:	• UniProtKB - O75385 • GeneID - 8408 • NCBI - NP_003556.1

Application Details

Tested Applications:	ELISA, IF, IHC, WB
Application Note:	Anti-ULK1 Antibody has been tested for use in ELISA, Western Blotting, Immunohistochemistry and Immunofluorescence. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 113 kDa in Western Blots of specific cell lysates and tissues.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:10,000
IF:	User Optimized
IHC:	User Optimized
WB:	1 µg/mL

Formulation

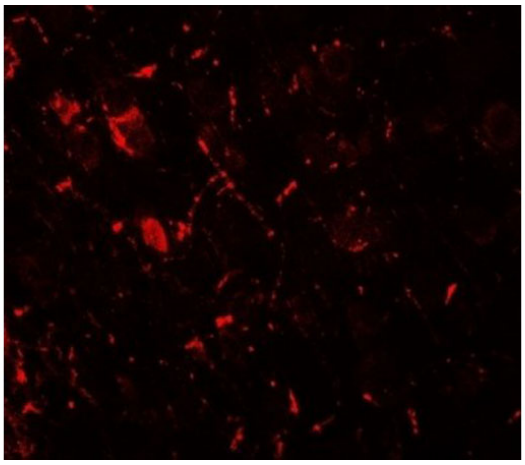
Physical State:	Liquid (sterile filtered)
Concentration:	1 mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

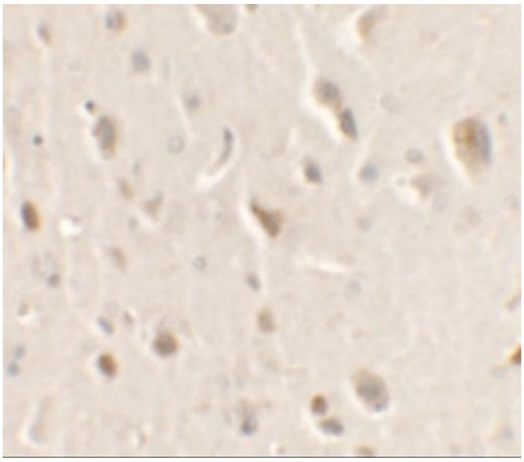
Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

Expiration: Expiration date is one (1) year from date of receipt.

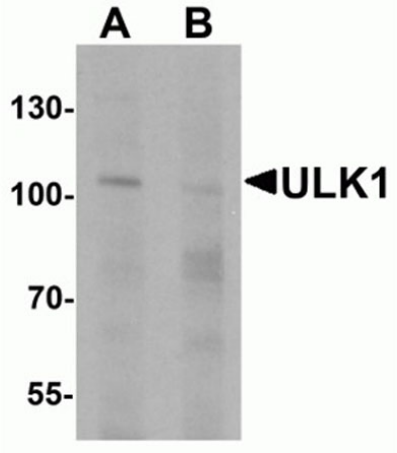
Images



Immunofluorescence Microscopy
Immunofluorescence of ULK1.
Tissue: rat brain tissue.
Primary Antibody: ULK1 antibody at 20 µg/mL.



Immunohistochemistry
Immunohistochemistry of ULK1.
Tissue: rat brain tissue.
Primary Antibody: ULK1 antibody at 2.5 µg/mL.



Western Blot
Western blot of ULK1.
Load: rat brain tissue lysate.
Primary Antibody: ULK1 antibody at 1 µg/mL in (A) the absence and (B) the presence of blocking peptide.

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