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# Datasheet for ABIN701440 anti-ULK1 antibody (AA 951-1050)

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3 Publications



#### Overview

Quantity:	100 µL
Target:	ULK1
Binding Specificity:	AA 951-1050
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ULK1 antibody is un-conjugated
Application:	ELISA, Western Blotting (WB), Flow Cytometry (FACS), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))

### Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human ATG1/ULK1
Isotype:	lgG
Cross-Reactivity:	Human, Mouse, Rat
Predicted Reactivity:	Cow,Pig,Horse,Chicken,Rabbit
Purification:	Purified by Protein A.
Target Details	
Target:	ULK1

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Target Details	
Alternative Name:	ATG1/ULK1 (ULK1 Products)
Background:	Synonyms: ATG1, ATG1A, UNC51, hATG1, Unc51.1, Serine/threonine-protein kinase ULK1,
	Autophagy-related protein 1 homolog, Unc-51-like kinase 1, ULK1, KIAA722
	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/KIAA652 and RPTOR, however such data need additional evidences.
	Plays a role early in neuronal differentiation and is required for granule cell axon formation.
Gene ID:	8408
UniProt:	075385
Pathways:	Regulation of Cell Size, Autophagy
Application Details	
Application Notes:	WB 1:300-5000
	ELISA 1:500-1000
	FCM 1:20-100
	IHC-P 1:200-400
	IHC-F 1:100-500
	IF(IHC-P) 1:50-200
	IF(IHC-F) 1:50-200
	IF(ICC) 1:50-200

Restrictions: For Research Use only

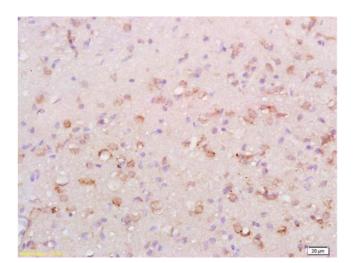
Handling

Format:	Liquid
Concentration:	1 μg/μL
Buffer:	0.01M TBS( pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin

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Handling	
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Expiry Date:	12 months
Publications	
Product cited in:	Shen, Hou, Zhu, Zhao, Ouyang, Feng et al.: "Cortical spreading depression preconditioning
	mediates neuroprotection against ischemic stroke by inducing AMP-activated protein kinase-
	dependent autophagy in a rat cerebral ischemic/reperfusion" in: Journal of neurochemistry,
	Vol. 140, Issue 5, pp. 799-813, (2016) (PubMed).
	Gao, Wang, Yi, Kou, Xie, Song: "Activation of lysosomal degradative pathway in spinal cord
	tissues of carbon disulfide-treated rats." in: Chemico-biological interactions, Vol. 219C, pp. 76-
	82, (2014) (PubMed).
	Song, Kou, Zou, Gao, Zeng, Xie: "Involvement of autophagy in tri-ortho-cresyl phosphate-
	induced delayed neuropathy in hens." in: <b>Neurochemistry international</b> , Vol. 64, pp. 1-8, (2013) (
	PubMed).

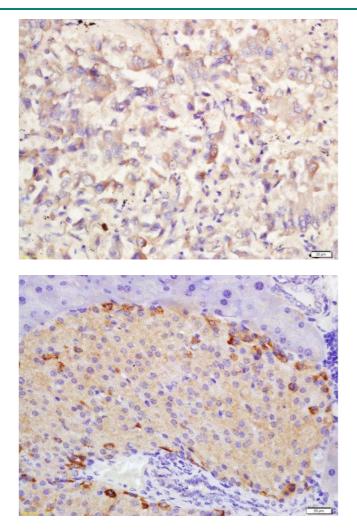
#### Images



#### Immunohistochemistry

**Image 1.** Formalin-fixed and paraffin embedded rat brain labeled with Anti-ATG1/ULK1 Polyclonal Antibody, Unconjugated (ABIN701440) at 1:200 followed by conjugation to the secondary antibody and DAB staining.

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#### Immunohistochemistry (Paraffin-embedded Sections)

**Image 2.** Formalin-fixed and paraffin embedded human lung carcinoma labeled with Rabbit Anti-ATG1/ULK1 Polyclonal Antibody, Unconjugated 1:200 followed by conjugation to the secondary antibody and DAB staining

#### Immunohistochemistry (Paraffin-embedded Sections)

**Image 3.** Formalin-fixed and paraffin embedded mouse pancreas labeled with Rabbit Anti-ATG1/ULK1 Polyclonal Antibody, Unconjugated 1:200 followed by conjugation to the secondary antibody and DAB staining

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