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Datasheet for ABIN5066139

## anti-ULK1 antibody (AA 567-577) (Atto 488)

### 3 Images

#### Overview

Quantity:	100 µg
Target:	ULK1
Binding Specificity:	AA 567-577
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ULK1 antibody is conjugated to Atto 488
Application:	Western Blotting (WB), Immunofluorescence (IF), Immunocytochemistry (ICC)

#### Product Details

Immunogen:	Synthetic peptide from the mid-protein of Human ULK1 (aa. 567-577)
Isotype:	IgG
Specificity:	Ubiquitously expressed. Detected in the following adult tissues: skeletal muscle, heart, pancreas, brain, placenta, liver, kidney, and lung., Detects ~100 kDa.
Cross-Reactivity:	Human, Mouse, Rat
Purification:	Peptide Affinity Purified

#### Target Details

Target:	ULK1
Alternative Name:	ULK1 ( <a href="#">ULK1 Products</a> )

## Target Details

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Background:	UNC-51 like kinase 1 (ULK1) is widely expressed and contains an amino-terminal kinase domain followed by a central proline-serine rich domain and a highly conserved carboxy-terminal domain. It has been linked to axon growth and is essential for autophagy. Structurally, ULK1 is similar to ATG1, and it appears that both Atg1/ULK1 can bind to several ATG proteins regulating phosphorylation states and protein trafficking.
Gene ID:	8408
NCBI Accession:	<a href="#">NP_003556</a>
UniProt:	<a href="#">O75385</a>
Pathways:	<a href="#">Regulation of Cell Size, Autophagy</a>

## Application Details

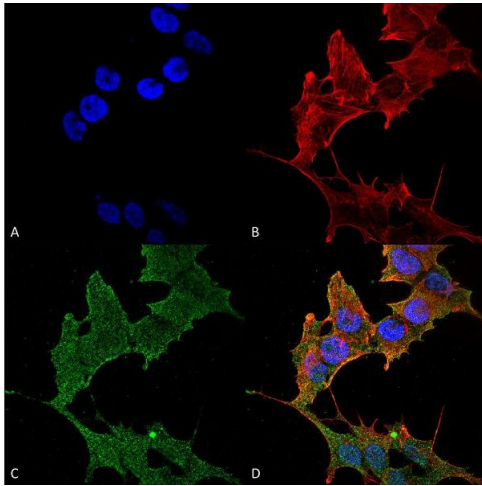
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Application Notes:	<ul style="list-style-type: none"><li>• WB (1:1000)</li><li>• ICC/IF (1:100)</li><li>• optimal dilutions for assays should be determined by the user.</li></ul>
Comment:	A 1:1000 dilution of ABIN5066139 was sufficient for detection of ULK1 in 15 µg of Human HeLa Cell Lysates by ECL immunoblot analysis using goat anti-rabbit IgG:HRP as the secondary antibody.
Restrictions:	For Research Use only

## Handling

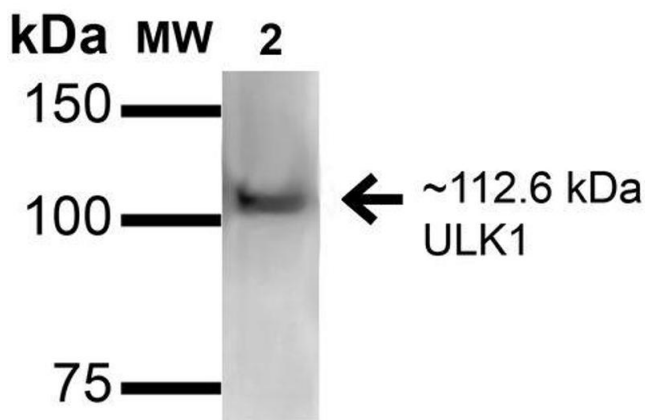
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Format:	Liquid
Concentration:	1 mg/mL
Buffer:	PBS, 50 % glycerol, 0.09 % sodium azide, Storage buffer may change when conjugated
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C
Storage Comment:	Conjugated antibodies should be stored at 4°C



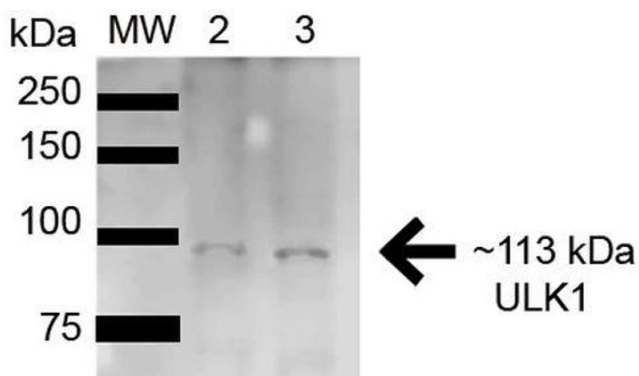
### Immunofluorescence (fixed cells)

**Image 1.** Immunocytochemistry/Immunofluorescence analysis using Rabbit Anti-ULK1 Polyclonal Antibody . Tissue: Neuroblastoma cell line (SK-N-BE). Species: Human. Fixation: 4% Formaldehyde for 15 min at RT. Primary Antibody: Rabbit Anti-ULK1 Polyclonal Antibody at 1:100 for 60 min at RT. Secondary Antibody: Goat Anti-Mouse ATTO 488 at 1:200 for 60 min at RT. Counterstain: Phalloidin Texas Red F-Actin stain; DAPI (blue) nuclear stain at 1:1000, 1:5000 for 60 min at RT, 5 min at RT. Localization: Cytoplasm, Preautophagosomal Structure. Magnification: 60X. (A) DAPI (blue) nuclear stain (B) Phalloidin Texas Red F-Actin stain (C) ULK1 Antibody (D) Composite.



### Western Blotting

**Image 2.** Western blot analysis of Human HeLa and 293Trap cell lysates showing detection of 112.6 kDa ULK1 protein using Rabbit Anti-ULK1 Polyclonal Antibody . Lane 1: Molecular Weight Ladder (MW). Lane 2: Human HeLa and 293Trap cell lysates. Load: 15  $\mu$ g . Block: 5% Skim Milk in 1X TBST. Primary Antibody: Rabbit Anti-ULK1 Polyclonal Antibody at 1:1000 for 1 hour at RT. Secondary Antibody: Goat Anti-Rabbit HRP at 1:2000 for 60 min at RT. Color Development: ECL solution for 6 min in RT. Predicted/Observed Size: 112.6 kDa.



### Western Blotting

**Image 3.** Western blot analysis of Rat Brain cell lysates showing detection of ~112.6kDa ULK1 protein using Rabbit Anti-ULK1 Polyclonal Antibody . Lane 1: Molecular Weight Ladder (MW). Lane 2: Rat Brain cell lysates. Load: 15  $\mu$ g . Block: 2% GE Healthcare Blocker (RT, 60 minutes). Primary Antibody: Rabbit Anti-ULK1 Polyclonal Antibody at 1:1000 for 16 hours at 4°C. Secondary Antibody: Goat Anti-Rabbit IgG: HRP at 1/2000 for 60 min at RT. Color Development:

ECL solution for 6 min at RT. Predicted/Observed Size:  
~112.6kDa.