Datasheet for ABIN5066148

anti-ULK1 antibody (AA 567-577) (Biotin)

3 Images

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Overview

Quantity:	100 µg
Target:	ULK1
Binding Specificity:	AA 567-577
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ULK1 antibody is conjugated to Biotin
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 (ULK1 Products)

Target Details

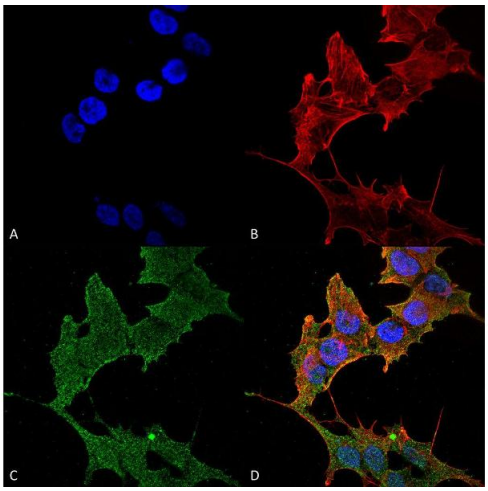
Background:	UNC-51 like kinase 1 (ULK1) is widely expresed and contains an amino-terminal kinase domain followed by a central proline-serine rich domain and a highly conserved carboxy-terminal domain. It has been linked to axon growth and is essential for autophagy. Structurally, ULK1 is similar to ATG1,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

Application Details

Application Notes:	• WB (1:1000) • ICC/IF (1:100) • optimal dilutions for assays should be determined by the user.
Comment:	A 1:1000 dilution of ABIN5066148 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

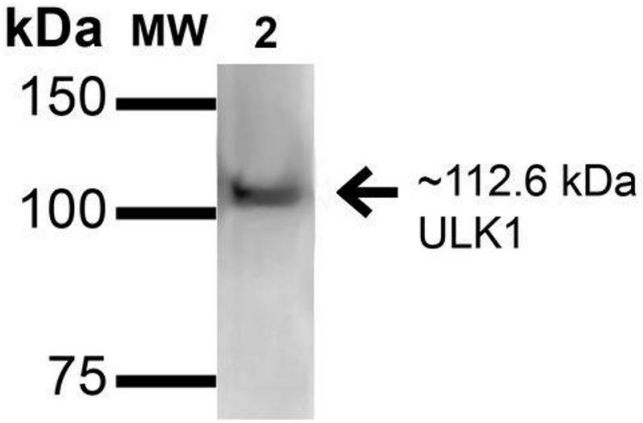
Handling

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



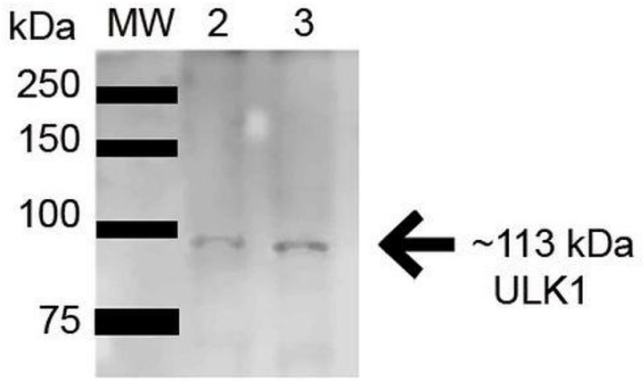
Immunofluorescence (fixed cells)

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 µg . 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 µg . 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:

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