

Datasheet for ABIN1881979
anti-ULK1 antibody (pSer556)[Go to Product page](#)[2 Images](#)[3 Publications](#)

Overview

Quantity:	400 µL
Target:	ULK1
Binding Specificity:	pSer556
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ULK1 antibody is un-conjugated
Application:	Dot Blot (DB), Immunofluorescence (IF)

Product Details

Immunogen:	This ULK1 Antibody is generated from rabbits immunized with a KLH conjugated synthetic phosphopeptide corresponding to amino acid residues surrounding S556 of human ULK1.
Clone:	RB30585
Isotype:	Ig Fraction
Purification:	This antibody is purified through a protein A column, followed by peptide affinity purification.

Target Details

Target:	ULK1
Alternative Name:	ULK1 (ULK1 Products)
Background:	Involved in autophagy. Required for autophagosome formation (By similarity). Target of the

Target Details

TOR kinase signaling pathway that regulates autophagy through the control of phosphorylation status of ATG13/KIAA0652 and ULK1, and the regulation of the ATG13-ULK1-RB1CC1 complex (By similarity). Phosphorylates ATG13/KIAA0652. Involved in axon growth (By similarity). Plays an essential role in neurite extension of cerebellar granule cells (By similarity).

Molecular Weight: 112631

NCBI Accession: [NP_003556](#)

UniProt: [O75385](#)

Pathways: [Regulation of Cell Size](#), [Autophagy](#)

Application Details

Application Notes: IF: 1:200. DB: 1:500

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.

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, -20 °C

Expiry Date: 6 months

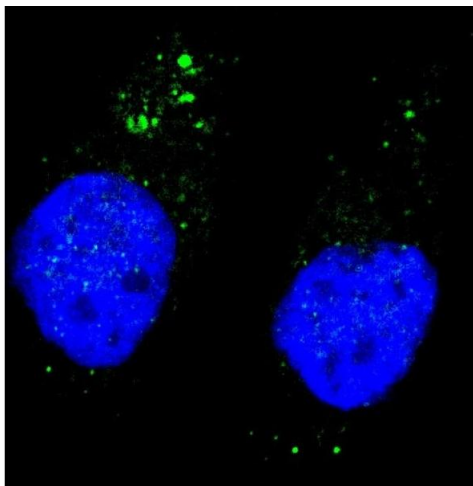
Publications

Product cited in: Carrascal, Ovelleiro, Casas, Gay, Abian: "Phosphorylation analysis of primary human T lymphocytes using sequential IMAC and titanium oxide enrichment." in: **Journal of proteome research**, Vol. 7, Issue 12, pp. 5167-76, (2009) ([PubMed](#)).

Kouligh, Li, DeMartino: "Relative structural and functional roles of multiple deubiquitylating proteins associated with mammalian 26S proteasome." in: **Molecular biology of the cell**, Vol. 19, Issue 3, pp. 1072-82, (2008) ([PubMed](#)).

Reuter, Medhurst, Waisfisz, Zhi, Herterich, Hoehn, Gross, Joenje, Hoatlin, Mathew, Huber: "Yeast two-hybrid screens imply involvement of Fanconi anemia proteins in transcription regulation, cell signaling, oxidative metabolism, and cellular transport." in: **Experimental cell research**, Vol. 289, Issue 2, pp. 211-21, (2003) ([PubMed](#)).

Images



Immunofluorescence

Image 1. Fluorescent image of cells stained with ULK1 (phospho) antibody. cells were treated with Chloroquine (50 μ M,16h), then fixed with 4 % PFA (20 min), permeabilized with Triton X-100 (0.2 %, 30 min). Cells were then incubated with (ABIN1881979 and ABIN2839916) ULK1 (phospho) primary antibody (1:200, 2 h at room temperature). For secondary antibody, Alexa Fluor® 488 conjugated donkey anti-rabbit antibody (green) was used (1:1000, 1h). Nuclei were counterstained with Hoechst 33342 (blue) (10 μ g/mL, 5 min). ULK1 (phospho) immunoreactivity is localized to autophagic vacuoles in the cytoplasm of cells.



Dot Blot

Image 2. Dot blot analysis of ULK1 Antibody (Phospho) Phospho-specific Pab (ABIN1881979 and ABIN2839916) on nitrocellulose membrane. 50 ng of Phospho-peptide or Non Phospho-peptide per dot were adsorbed. Antibody working concentrations are 0.6 μ g per ml.