

Datasheet for ABIN1881981
anti-ULK1 antibody (pSer467)



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Overview

Quantity:	400 µL
Target:	ULK1
Binding Specificity:	pSer467
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ULK1 antibody is un-conjugated
Application:	Dot Blot (DB)

Product Details

Immunogen:	This ULK1 Antibody is generated from rabbits immunized with a KLH conjugated synthetic phosphopeptide corresponding to amino acid residues surrounding S467 of human ULK1.
Clone:	RB30636
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:	ULK1 is involved in autophagy. Required for autophagosome formation (By similarity). Target of

Target Details

the 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: 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

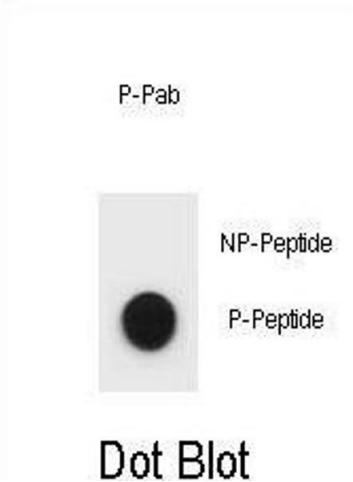
Publications

Product cited in: Mercer, Kaliappan, Dennis: "A novel, human Atg13 binding protein, Atg101, interacts with ULK1 and is essential for macroautophagy." in: **Autophagy**, Vol. 5, Issue 5, pp. 649-62, (2009) ([PubMed](#)).

Ganley, Lam, Wang, Ding, Chen, Jiang: "ULK1.ATG13.FIP200 complex mediates mTOR signaling and is essential for autophagy." in: **The Journal of biological chemistry**, Vol. 284, Issue 18, pp. 12297-305, (2009) ([PubMed](#)).

Jung, Jun, Ro, Kim, Otto, Cao, Kundu, Kim: "ULK-Atg13-FIP200 complexes mediate mTOR signaling to the autophagy machinery." in: **Molecular biology of the cell**, Vol. 20, Issue 7, pp. 1992-2003, (2009) ([PubMed](#)).

Hosokawa, Hara, Kaizuka, Kishi, Takamura, Miura, Iemura, Natsume, Takehana, Yamada, Guan, Oshiro, Mizushima: "Nutrient-dependent mTORC1 association with the ULK1-Atg13-FIP200 complex required for autophagy." in: **Molecular biology of the cell**, Vol. 20, Issue 7, pp. 1981-91, (2009) ([PubMed](#)).



Dot Blot

Image 1. Dot blot analysis of ULK1 Antibody (Phospho) Phospho-specific Pab (ABIN1881981 and ABIN2839964) on nitrocellulose membrane. 50 ng of Phospho-peptide or Non Phospho-peptide per dot were adsorbed. Antibody working concentrations are 0.6 µg per ml.