

Datasheet for ABIN1881978
anti-ULK1 antibody (pSer317)



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Overview

Quantity:	400 µL
Target:	ULK1
Binding Specificity:	pSer317
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 S317 of human ULK1.
Clone:	RB40755
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: 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 (ABIN1881978 and ABIN2839915) 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.