

**ULK2 Antibody**  
**Mouse Monoclonal Antibody (Mab)**  
**Catalog # AM1884B****Specification**

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**ULK2 Antibody - Product Information**

Application	WB,E
Primary Accession	<a href="#">Q8IYT8</a>
Other Accession	<a href="#">NP_055498.3</a> , <a href="#">NP_001136082.1</a>
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	IgM,K

**ULK2 Antibody - Additional Information****Gene ID** 9706**Other Names**

Serine/threonine-protein kinase ULK2, Unc-51-like kinase 2, ULK2, KIAA0623

**Target/Specificity**

This ULK2 monoclonal antibody is generated from mouse immunized with ULK2 recombinant protein.

**Dilution**

WB~~1:100

**Format**

Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Euglobin precipitation followed by dialysis against PBS.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

ULK2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**ULK2 Antibody - Protein Information****Name** ULK2**Synonyms** KIAA0623

**Function** Serine/threonine-protein kinase involved in autophagy in response to starvation. Acts upstream of phosphatidylinositol 3-kinase PIK3C3 to regulate the formation of autophagophores, the precursors of autophagosomes. Part of regulatory feedback loops in autophagy: acts both as a

downstream effector and a negative regulator of mammalian target of rapamycin complex 1 (mTORC1) via interaction with RPTOR. Activated via phosphorylation by AMPK, also acts as a negative regulator of AMPK through phosphorylation of the AMPK subunits PRKAA1, PRKAB2 and PRKAG1. May phosphorylate ATG13/KIAA0652, FRS2, FRS3 and RPTOR; however such data need additional evidences. Not involved in ammonia-induced autophagy or in autophagic response of cerebellar granule neurons (CGN) to low potassium concentration. Plays a role early in neuronal differentiation and is required for granule cell axon formation: may govern axon formation via Ras-like GTPase signaling and through regulation of the Rab5-mediated endocytic pathways within developing axons.

#### Cellular Location

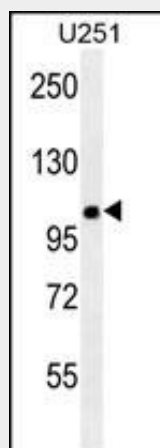
Cytoplasmic vesicle membrane; Peripheral membrane protein. Note=Localizes to pre-autophagosomal membrane

#### ULK2 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### ULK2 Antibody - Images



ULK2 antibody (Cat. #AM1884b) western blot analysis in U251 cell line lysates (35µg/lane). This demonstrates the ULK2 antibody detected the ULK2 protein (arrow).

#### ULK2 Antibody - Background

This gene encodes a protein that is similar to a serine/threonine kinase in *C. elegans* which is involved in axonal elongation. The structure of this protein is similar to the *C. elegans* protein in that both proteins have an N-terminal kinase domain, a central proline/serine rich (PS) domain, and a C-terminal (C) domain. The gene is located within the Smith-Magenis syndrome region on chromosome 17. Alternatively spliced transcript variants encoding the same protein have been identified. [provided by RefSeq].

**ULK2 Antibody - References**

Rose, J. Phd, et al. Mol. Med. (2010) In press : Jung, C.H., et al. Mol. Biol. Cell  
20(7):1992-2003(2009) Stelzl, U., et al. Cell 122(6):957-968(2005) Tomoda, T., et al. Genes Dev.  
18(5):541-558(2004) Yan, J., et al. Oncogene 18(43):5850-5859(1999)