

# ULK1/ULK2 Rabbit pAb

Catalog No.: A18685

## Basic Information

### Observed MW

113kDa

### Calculated MW

### Category

Primary antibody

### Applications

WB,ELISA

### Cross-Reactivity

Human

## Background

Mammalian ULK1 (unc-51 like kinase 1) and ULK2, *Caenorhabditis elegans* UNC-51, and *Drosophila melanogaster* Atg1 are serine/threonine kinases that regulate flux through the autophagy pathway in response to various types of cellular stress. ULK1 and ULK2 all have different tissue-specific expressions partially contributing to diverse and ULK-specific interaction networks in various tissues. ULK1 (or its close family member ULK2) interacts with several other proteins to form a large complex that is required for the formation of an autophagosome. The other proteins that complex with ULK1/ULK2 include ATG13, ATG101, and RB1CC1 (FIP200/ATG17). AMPK, activated during low nutrient conditions, directly phosphorylates ULK1 at multiple sites including Ser317, Ser555, and Ser777. Conversely, mTOR, which is a regulator of cell growth and is an inhibitor of autophagy, phosphorylates ULK1 at Ser757 and disrupts the interaction between ULK1 and AMPK.

## Recommended Dilutions

**WB** 1:500 - 1:2000

**ELISA** Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements.

## Immunogen Information

### Gene ID

8408/9706

### Swiss Prot

O75385/Q8IYT8

### Immunogen

Recombinant fusion protein containing a sequence corresponding to amino acids 1-283 of human ULK1/ULK2 (NP\_003556.1).

### Synonyms

## Contact

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## Product Information

### Source

Rabbit

### Isotype

IgG

### Purification

Affinity purification

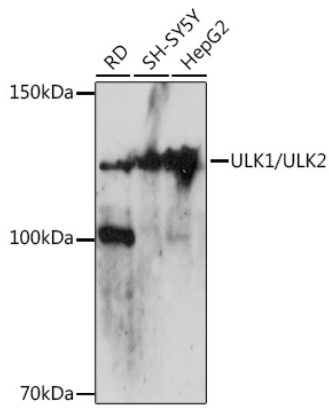
### Storage

Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.01% thimerosal, 50% glycerol, pH 7.3.

## Validation Data

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Western blot analysis of various lysates using ULK1/ULK2 Rabbit pAb (A18685) at 1:500 dilution.  
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.  
Lysates/proteins: 25µg per lane.  
Blocking buffer: 3% nonfat dry milk in TBST.  
Detection: ECL Basic Kit (RM00020).  
Exposure time: 90s.