

Datasheet for ABIN7169209  
**anti-ULK2 antibody (AA 211-276)**



[Go to Product page](#)

3 Images

## Overview

Quantity:	100 µg
Target:	ULK2
Binding Specificity:	AA 211-276
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ULK2 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC)

## Product Details

Immunogen:	Recombinant Human Serine/threonine-protein kinase ULK2 protein (211-276AA)
Isotype:	IgG
Cross-Reactivity:	Human
Purification:	>95%, Protein G purified

## Target Details

Target:	ULK2
Alternative Name:	ULK2 ( <a href="#">ULK2 Products</a> )
Background:	Background: Serine/threonine-protein kinase involved in autophagy in response to starvation. Acts upstream of phosphatidylinositol 3-kinase PIK3C3 to regulate the formation of

## Target Details

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.

Aliases: ATG1B antibody, KIAA0623 antibody, Serine/threonine protein kinase ULK2 antibody, Serine/threonine-protein kinase ULK2 antibody, ULK2 antibody, ULK2\_HUMAN antibody, Unc 51 (C. elegans) like kinase 2 antibody, Unc 51 like autophagy activating kinase 2 antibody, Unc 51 like kinase 2 antibody, Unc-51-like kinase 2 antibody, Unc51.2 antibody

UniProt: [Q8IYT8](#)

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

## Application Details

Application Notes: Recommended dilution: WB:1:500-1:5000, IHC:1:200-1:500,

Restrictions: For Research Use only

## Handling

Format: Liquid

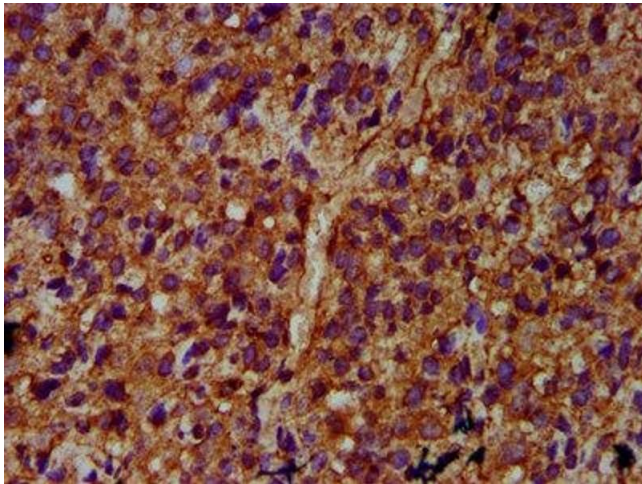
Buffer: Preservative: 0.03 % Proclin 300  
Constituents: 50 % Glycerol, 0.01M PBS, pH 7.4

Preservative: ProClin

Precaution of Use: This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

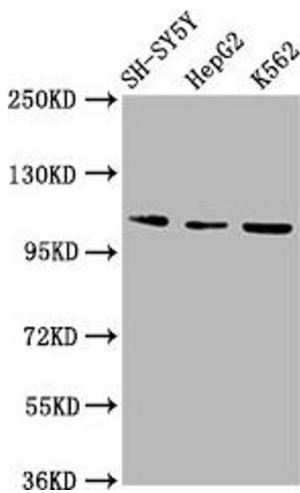
Storage: -20 °C,-80 °C

Storage Comment: Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.



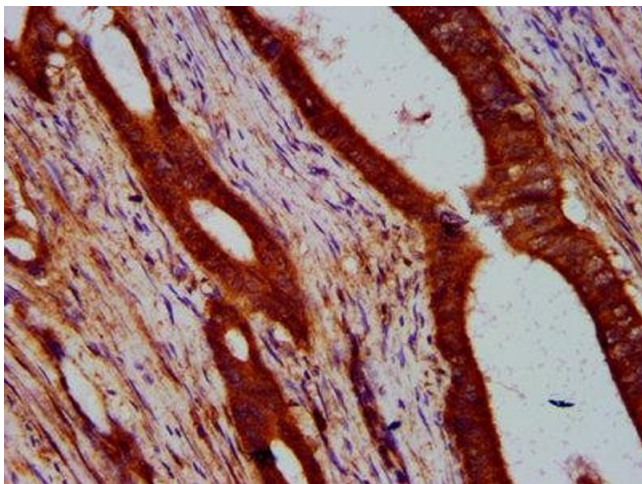
#### Immunohistochemistry

**Image 1.** IHC image of ABIN7169209 diluted at 1:400 and staining in paraffin-embedded human glioma performed on a Leica Bond™ system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a biotinylated secondary antibody and visualized using an HRP conjugated SP system.



#### Western Blotting

**Image 2.** Western Blot Positive WB detected in: SH-SY5Y whole cell lysate, HepG2 whole cell lysate, K562 whole cell lysate All lanes: ULK2 antibody at 2.9 µg/mL Secondary Goat polyclonal to rabbit IgG at 1/50000 dilution Predicted band size: 113 kDa Observed band size: 113 kDa



#### Immunohistochemistry

**Image 3.** IHC image of ABIN7169209 diluted at 1:400 and staining in paraffin-embedded human colon cancer performed on a Leica Bond™ system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a biotinylated secondary antibody and visualized using an HRP conjugated SP system.