

Basic Information

Product Name	Anti-ULK1 Antibody	
Gene Name	ULK1	
Source	Rabbit	
Clonality	Polyclonal	
Isotype	IgG	
Species Reactivity	human, mouse, rat	
Tested Application	WB, IHC, FCM	
Contents	500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml BSA and 50% glycerol.	
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human ULK1, which shares 81.8% amino acid (aa) sequence identity with both mouse and rat ULK1.	
Concentration	500 ug/ml	
Purification	Immunogen affinity purified.	
Observed MW	130-150 kDa	
Dilution Ratios	Western blot (WB):	1:500-2000
	Immunohistochemistry (IHC):	1:50-400
	Flow Cytometry (Fixed):	1:50-200
	(Boiling the paraffin sections in 10mM citrate buffer,pH6.0,or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.	

Storage

12 months from date of receipt, -20°C as supplied.

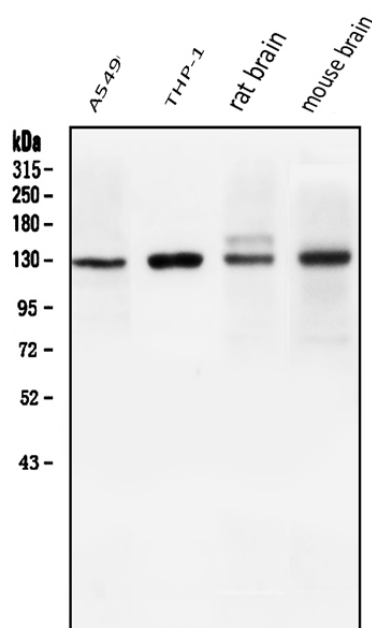
Background Information

ULK1 is an enzyme that in humans is encoded by the ULK1 gene. It is mapped to 12q24.33. Unc-51 like autophagy activating kinase (ULK1/2) are two similar isoforms of an enzyme that in humans are encoded by the ULK1/2 genes. It is specifically a kinase that is involved with autophagy, particularly in response to amino acid withdrawal. Not many studies have been done comparing the two isoforms, but some differences have been recorded.

Reference

Anti-ULK1 Antibody被引用在4文献中。

Selected Validation Data



A00584-1 ULK1

Western blot analysis of ULK1 using anti-ULK1 antibody (A00584-1). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: human A549 whole cell lysates,

Lane 2: human THP-1 whole cell lysates,

Lane 3: rat brain tissue lysates,

Lane 4: mouse brain tissue lysates.

After electrophoresis, proteins were transferred to a membrane.

Then the membrane was incubated with rabbit anti-ULK1 antigen

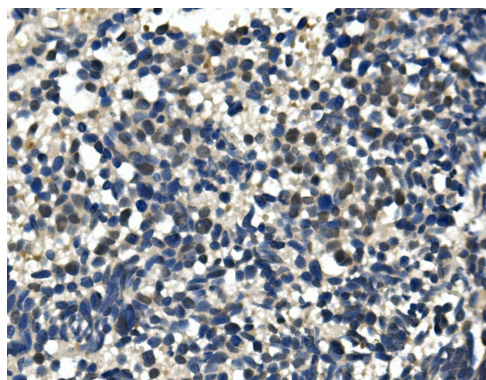
affinity purified polyclonal antibody (A00584-1) at a dilution of

1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus

Western Blotting Substrate (Catalog # AR1197). A specific band was

detected for ULK1 at approximately 130-150 kDa. The expected

band size for ULK1 is at 113 kDa.



IHC analysis of ULK1 using anti-ULK1 antibody (A00584-1).

ULK1 was detected in a paraffin-embedded section of human lung

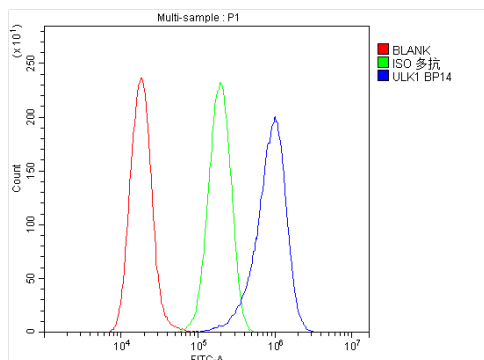
cancer tissue. Biotinylated goat anti-rabbit IgG was used as

secondary antibody. The tissue section was incubated with rabbit

anti-ULK1 Antibody (A00584-1) at a dilution of 1:200 and developed

using Streptavidin-Biotin-Complex (SABC) (Catalog # SA1022) with

DAB (Catalog # AR1027) as the chromogen.



Flow Cytometry analysis of A549 cells using anti-ULK1 antibody (A00584-1).

Overlay histogram showing A549 cells stained with A00584-1 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-ULK1 Antibody (A00584-1) at 1:100 dilution for 30 min at 20°C. Fluoro488 conjugated goat anti-rabbit IgG (BA1127) was used as secondary antibody at 1:100 dilution for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG at 1:100 dilution used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.