

For Research Use Only

# ULK1 Monoclonal antibody

Catalog Number: 68445-1-Ig



## Basic Information

<b>Catalog Number:</b> 68445-1-Ig	<b>GenBank Accession Number:</b> NM_003565	<b>Purification Method:</b> Protein G purification
<b>Size:</b> 150ul , Concentration: 1000 µg/ml by Nanodrop and 793 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 8408	<b>CloneNo.:</b> 1D7G1
<b>Source:</b> Mouse	<b>Full Name:</b> unc-51-like kinase 1 (C. elegans)	<b>Recommended Dilutions:</b> WB 1:5000-1:50000 IHC 1:50-1:500
<b>Isotype:</b> IgG1	<b>Observed MW:</b> 130-150 kDa	
<b>Immunogen Catalog Number:</b> AG22397		

## Applications

### Tested Applications:

IHC, WB, ELISA

### Species Specificity:

Human, Mouse, Rat

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

### Positive Controls:

WB : A549 cells, PC-3 cells, HeLa cells, Jurkat cells, HT-1376 cells, LnCaP cells, T-47D cells, NIH/3T3 cells, PC-12 cells

IHC : human liver tissue, mouse skeletal muscle tissue

## Background Information

ULK1, also named as KIAA0722, belongs to the protein kinase superfamily, Ser/Thr protein kinase family and APG1/unc-51/ULK1 subfamily. It is involved in autophagy. ULK1 is required for autophagosome formation. It forms a stable complex with Atg13 and focal adhesion kinase (FAK) family interacting protein of 200 kDa (FIP 200) (PMID:21460634). ULK1 phosphorylates ATG13/KIAA0652. It is involved in axon growth. ULK1 plays an essential role in neurite extension of cerebellar granule cells. ULK1 represents a potential novel prognostic biomarker for HCC patients and may play an important role during the progression of HCC (PMID:23573318).

## Storage

### Storage:

Store at -20°C. Stable for one year after shipment.

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

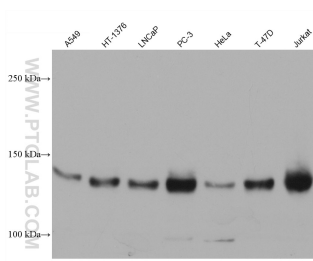
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

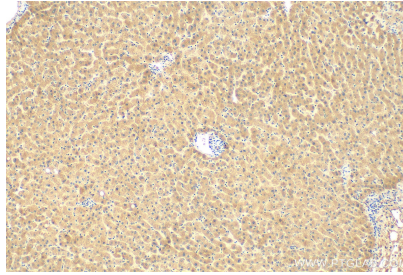
E: proteintech@ptglab.com  
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

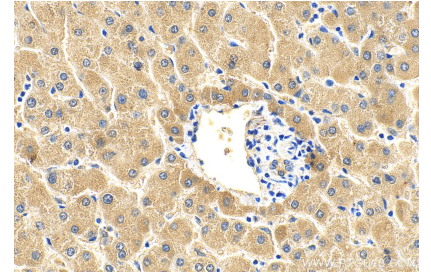
## Selected Validation Data



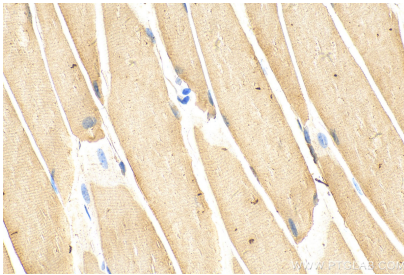
Various lysates were subjected to SDS PAGE followed by western blot with 68445-1-Ig (ULK1 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



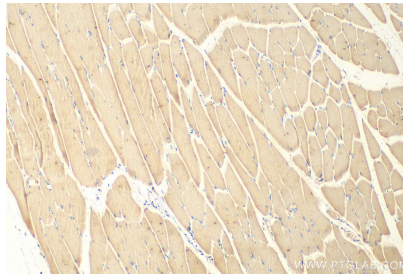
Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 68445-1-Ig (ULK1 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 68445-1-Ig (ULK1 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse skeletal muscle tissue slide using 68445-1-Ig (ULK1 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse skeletal muscle tissue slide using 68445-1-Ig (ULK1 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).