

For Research Use Only

ULK1 Polyclonal antibody

Catalog Number: 20986-1-AP

Featured Product

78 Publications



Basic Information

Catalog Number:

20986-1-AP

Size:

150ul, Concentration: 800 ug/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

GenBank Accession Number:

NM_003565

GeneID (NCBI):

8408

UNIPROT ID:

O75385

Full Name:

unc-51-like kinase 1 (C. elegans)

Calculated MW:

113 kDa

Observed MW:

113-140 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB: 1:500-1:2000

IHC: 1:50-1:500

IF/ICC: 1:50-1:500

Applications

Tested Applications:

WB, IHC, IF/ICC, ELISA

Cited Applications:

WB, IHC, IF, IP

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, rat, bovine, goat

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: mouse skeletal muscle tissue, HepG2 cells, HEK-293T cells, rat skeletal muscle tissue, HeLa cells

IHC: human skeletal muscle tissue, human liver cancer tissue, human liver tissue, mouse skeletal muscle tissue

IF/ICC: HeLa cells,

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).

Notable Publications

Author	Pubmed ID	Journal	Application
Hua Yao	34509610	Toxicol Lett	WB
Huangrong Zhu	36120586	Front Cell Dev Biol	WB
Wenpeng Zhao	36148236	Front Immunol	WB,IF

Storage

Storage:

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

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

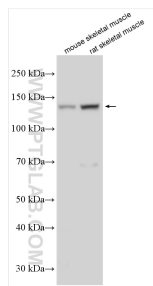
For technical support and original validation data for this product please contact:

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.

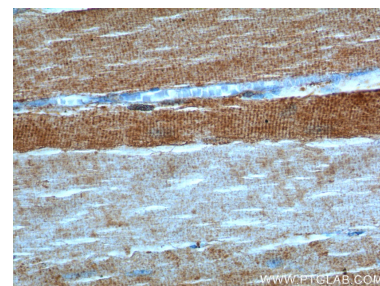
Selected Validation Data



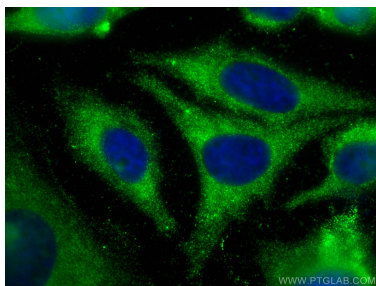
Various lysates were subjected to SDS PAGE followed by western blot with 20986-1-AP (ULK1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human skeletal muscle tissue slide using 20986-1-AP (ULK1 Antibody) at dilution of 1:200 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human skeletal muscle tissue slide using 20986-1-AP (ULK1 Antibody) at dilution of 1:200 (under 40x lens).



Immunofluorescent analysis of (-20°C Methanol) fixed HeLa cells using ULK1 antibody (20986-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).