

For Research Use Only

ULK1 Polyclonal antibody

Catalog Number: 20986-1-AP

Featured Product

72 Publications



Basic Information

Catalog Number:

20986-1-AP

Concentration:

800 ug/ml

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

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

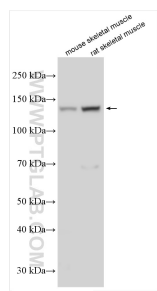
T: 4006900926

E: Proteintech-CN@ptglab.com

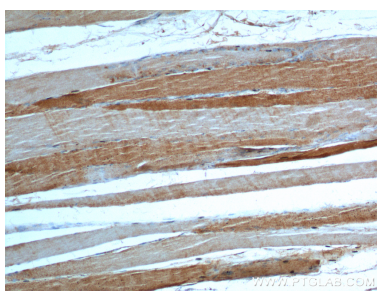
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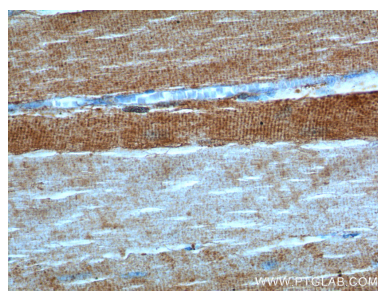
Selected Validation Data



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).