ULK1 Polyclonal antibody

Catalog Number:20986-1-AP

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Basic Information

Catalog Number:
20986-1-AP

Size:
150ul , Concentration: 500 μg/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

Applications

Tested Applications:
WB, IHC, ELISA

Cited Applications:
WB, IF, IHC

Species Specificity:
human, mouse, rat

Cited Species:
human, goat, rat, mouse, bovine

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

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℃. 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
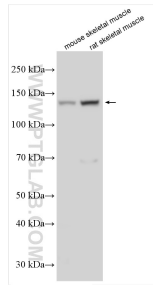
*** 20ul sizes contain 0.1% BSA

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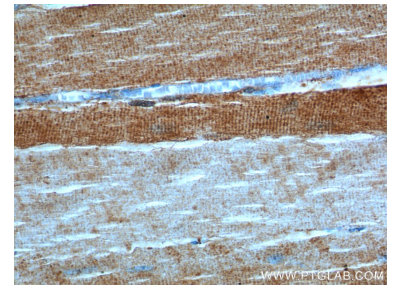
Immunohistochemical analysis of paraffin-embedded human skeletal muscle tissue slide using 20986-1-AP (ULK1 Antibody) at dilution of 1:200 (under 40x lens).