For Research Use Only

ULK1 Monoclonal antibody

Catalog Number:68445-1-Ig 6 Publications

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Basic Information

Catalog Number:
68445-1-Ig

Size:
150ul , Concentration: 1000 ug/ml by Nanodrop and 793 ug/ml by Bradford method using BSA as the standard;

Source:
Mouse

Isotype:
IgG1

Immunogen Catalog Number:
AG22397

GenBank Accession Number:
NM_003565

GeneID (NCBI):
8408

UNIPROT ID:
O75385

Full Name:
unc-51-like kinase 1 (C. elegans)

Observed MW:
130-150 kDa

Purification Method:
Protein G purification

CloneNo.:
1D7G1

Recommended Dilutions:
WB: 1:5000-1:50000
IHC: 1:50-1:500

Applications

Tested Applications:
WB, IHC, ELISA

Cited Applications:
WB

Species Specificity:
human, mouse, rat

Cited Species:
human, mouse

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).

Notable Publications

Author	Pubmed ID	Journal	Application
Li Ma	40280981	Sci Rep	WB
Zixuan Wang	40017402	J Agric Food Chem	WB
Wei-Qiang Huang	39753731	Nat Nanotechnol	WB

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
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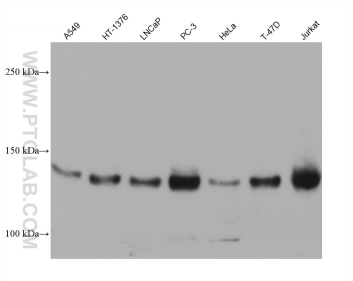
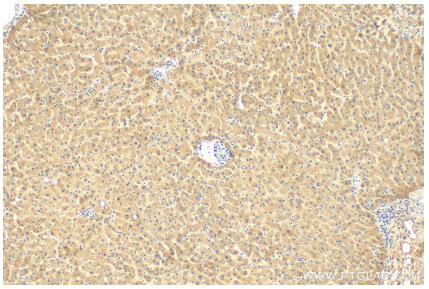
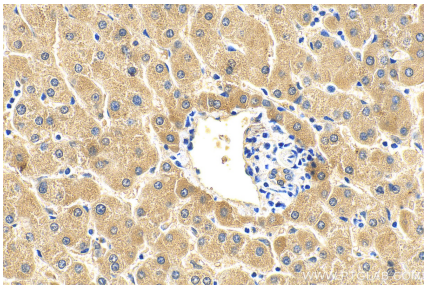
Selected Validation Data



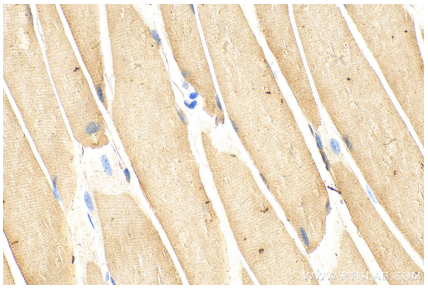
Various lysates were subjected to SDS PAGE followed by western blot with 68445-1-Ig (ULK1 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



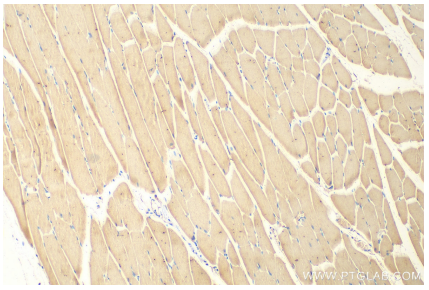
Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 68445-1-Ig (ULK1 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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).