

For Research Use Only

ULK1 Monoclonal antibody

Catalog Number: 68445-1-Ig **4 Publications**



Basic Information

Catalog Number: 68445-1-Ig	GenBank Accession Number: NM_003565	Purification Method: Protein G purification
Concentration: 1000 ug/ml	GeneID (NCBI): 8408	CloneNo.: 1D7G1
Source: Mouse	UNIPROT ID: O75385	Recommended Dilutions: WB 1:5000-1:50000 IHC 1:50-1:500
Isotype: IgG1	Full Name: unc-51-like kinase 1 (C. elegans)	
Immunogen Catalog Number: AG22397	Observed MW: 130-150 kDa	

Applications

Tested Applications: WB, IHC, ELISA	Positive Controls:
Cited Applications: WB	WB : A549 cells, PC-3 cells, HeLa cells, Jurkat cells, HT-1376 cells, LnCaP cells, T-47D cells, NIH/3T3 cells, PC-12 cells
Species Specificity: human, mouse, rat	IHC : human liver tissue, mouse skeletal muscle tissue
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	

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
Zixuan Wang	40017402	J Agric Food Chem	WB
Wei-Qiang Huang	39753731	Nat Nanotechnol	WB
Rui Qi Wang	39437445	Am J Physiol Cell Physiol	WB

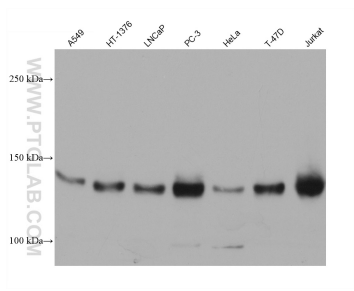
Storage

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

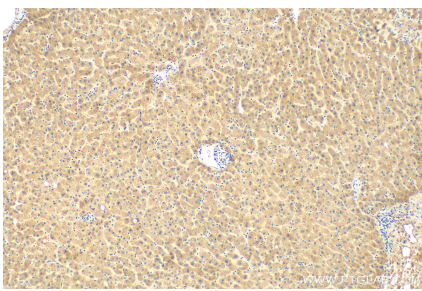
For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

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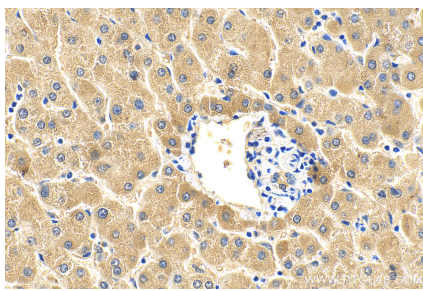
Selected Validation Data



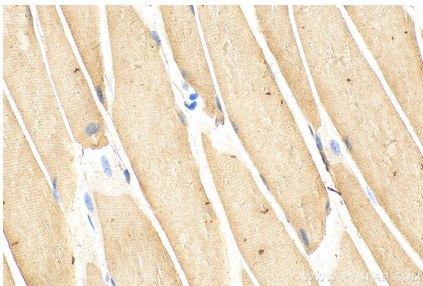
Various lysates were subjected to SDS PAGE followed by western blot with 68445-1-Ig (ULK1 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



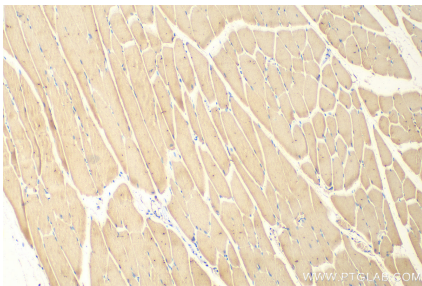
Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 68445-1-Ig (ULK1 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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).