

ULK1 Rabbit mAb

Catalog No: #49570

Package Size: #49570-1 50ul #49570-2 100ul

Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

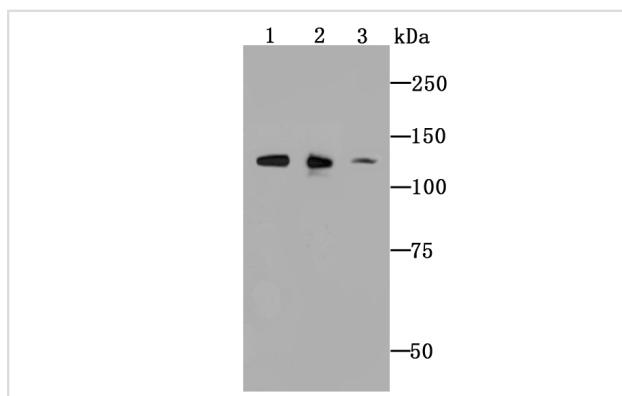
Description

Product Name	ULK1 Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	JA58-36
Purification	ProA affinity purified
Applications	WB, IHC
Species Reactivity	Hu, Ms, Rt
Immunogen Description	recombinant protein
Other Names	ATG 1 antibody ATG1 antibody ATG1 autophagy related 1 homolog antibody ATG1A antibody Autophagy related protein 1 homolog antibody Autophagy-related protein 1 homolog antibody FLJ38455 antibody FLJ46475 antibody hATG1 antibody KIAA0722 antibody Serine/threonine protein kinase ULK1 antibody Serine/threonine protein kinase Unc51.1 antibody Serine/threonine-protein kinase ULK1 antibody ULK 1 antibody ULK1 antibody ULK1_HUMAN antibody Unc 51 (C. elegans) like kinase 1 antibody UNC 51 antibody Unc 51 like kinase 1 antibody Unc-51 like kinase 1 (C. elegans) antibody Unc-51-like kinase 1 antibody UNC51 antibody UNC51, C. elegans, homolog of antibody Unc51.1 antibody
Accession No.	Swiss-Prot#:O75385
Uniprot	O75385
GeneID	8408;
Calculated MW	112 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

Application Details

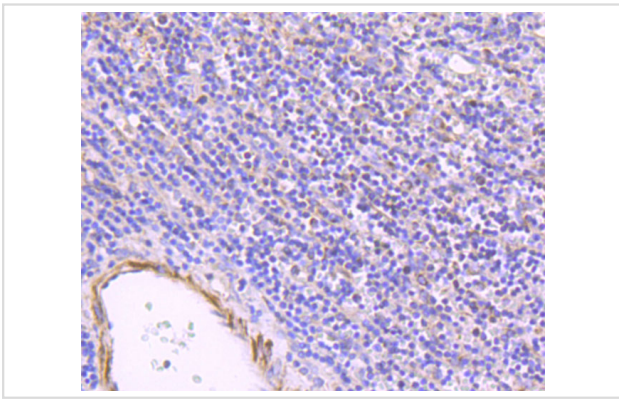
WB: 1:500-1:2,000 IHC: 1:50-1:200

Images

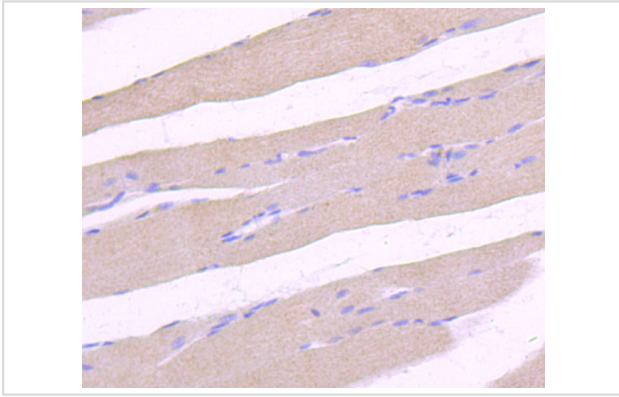


Western blot analysis of ULK1 on different cell lysate using anti-ULK1 antibody at 1/1,000 dilution. Positive control $\Omega\frac{1}{2}\Omega\frac{1}{2}$

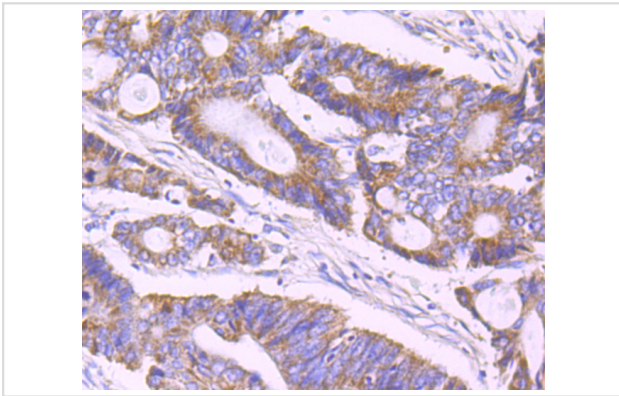
Lane1: MCF-7
Lane2: Mouse spleen
Lane3: SH-SY5Y



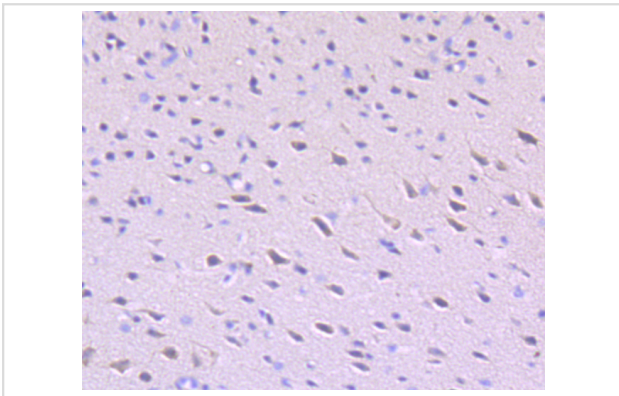
Immunohistochemical analysis of paraffin-embedded human spleen tissue using anti-ULK1 antibody. Counter stained with hematoxylin.



Immunohistochemical analysis of paraffin-embedded rat skeleton muscle tissue using anti-ULK1 antibody. Counter stained with hematoxylin.



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue using anti-ULK1 antibody. Counter stained with hematoxylin.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue using anti-ULK1 antibody. Counter stained with hematoxylin.

Background

Serine/threonine-protein kinase involved in autophagy in response to starvation. Acts upstream of phosphatidylinositol 3-kinase PIK3C3 to regulate the formation of autophagophores, the precursors of autophagosomes. Part of regulatory feedback loops in autophagy: acts both as a downstream effector and negative regulator of mammalian target of rapamycin complex 1 (mTORC1) via interaction with RPTOR. Activated via phosphorylation by AMPK and also acts as a regulator of AMPK by mediating phosphorylation of AMPK subunits PRKAA1, PRKAB2 and PRKAG1, leading to negatively regulate AMPK activity. May phosphorylate ATG13/KIAA0652 and RPTOR; however such data need additional evidences. Plays a role early in neuronal differentiation and is required for granule cell axon formation. May also phosphorylate SESN2 and SQSTM1 to regulate autophagy.

References

Note: This product is for in vitro research use only