ULk1 Rabbit Polyclonal Antibody

Catalog No: #55533

Package Size: #55533-1 50ul #55533-2 100ul

Signalway Antibody
Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

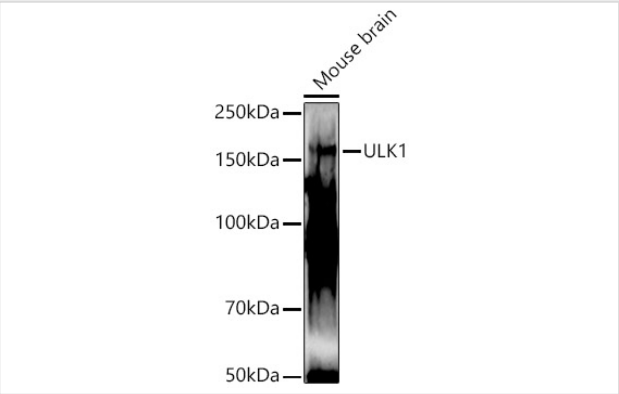
Description

Product Name	ULk1 Rabbit Polyclonal Antibody
Host Species	Rabbit
Clonality	Polyclonal
Isotype	IgG
Purification	Affinity purification
Applications	WB,IF
Species Reactivity	Human,Mouse,Rat
Immunogen Description	Recombinant fusion protein of human ULK1 (NP_003556.1).
Conjugates	Unconjugated
Other Names	ULK1;ATG1;ATG1A;UNC51;Unc51.1;hATG1;ULk1
Accession No.	Uniprot:O75385GeneID:8408
Calculated MW	112kDa
SDS-PAGE MW	150KDa
Formulation	PBS with 0.02% sodium azide,50% glycerol,pH7.3.
Storage	Store at -20°C. Avoid freeze / thaw cycles.

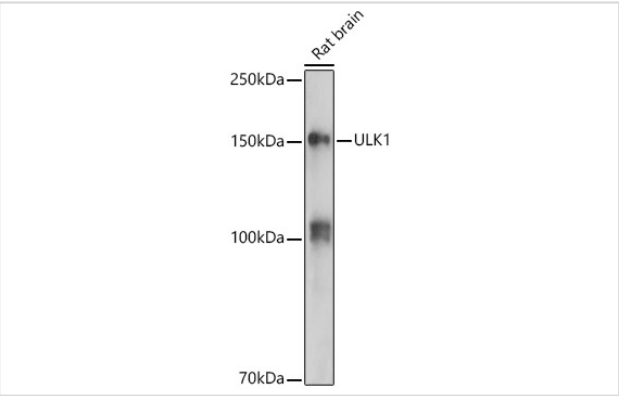
Application Details

WB□1:500 - 1:1000IF□1:10 - 1:100

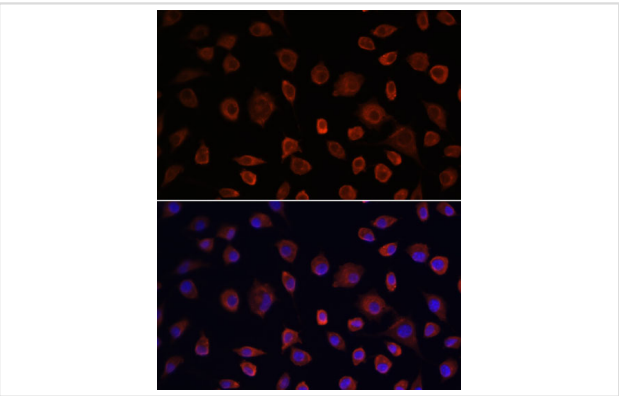
Images



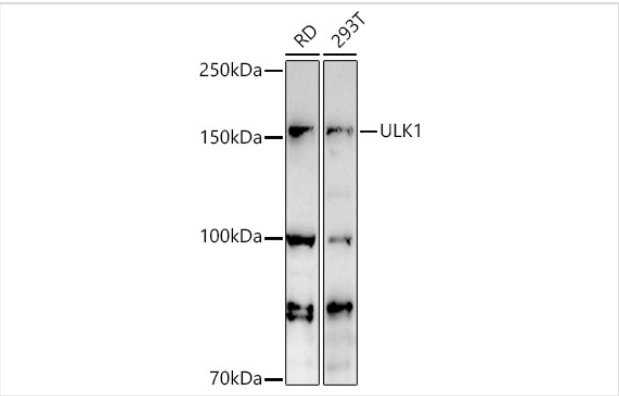
Western blot analysis of extracts of Mouse brain, using ULK1 antibody.



Western blot analysis of extracts of Rat brain, using ULK1 antibody.



Immunofluorescence analysis of L929 cells using ULK1 antibody.



Western blot analysis of extracts of various cell lines, using ULK1 antibody.

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. Phosphorylates FLCN, promoting autophagy. Phosphorylates AMBRA1 in response to autophagy induction, releasing AMBRA1 from the cytoskeletal docking site to induce autophagosome nucleation.

Note: This product is for in vitro research use only and is not intended for use in humans or animals.