

ATG1 ULK1 Antibody FITC Conjugated

Catalog No: #C04809F

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Description

Product Name	ATG1 ULK1 Antibody FITC Conjugated
Host Species	Rabbit
Clonality	Polyclonal
Isotype	IgG
Purification	Purified by Protein A.
Applications	Flow-Cyt IF
Species Reactivity	Hu Ms Rt
Immunogen Description	KLH conjugated synthetic peptide aa 1004-1050 1050 derived from human ATG1 ULK1
Conjugates	FITC
Target Name	ATG1 ULK1
Other Names	ATG1; ATG1A; UNC51; hATG1; Unc51.1; Serine threonine-protein kinase ULK1; Autophagy-related protein 1 homolog; Unc-51-like kinase 1; ULK1; KIAA722
Accession No.	Swiss-Prot#O75385NCBI Gene ID8408
Uniprot	O75385
GeneID	8408;
Excitation Emission	494nm 518nm
Cell Localization	Cytoplasm
Concentration	1mg ml
Formulation	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Application Details

Flow-Cyt=1:50-200 IF=1:50-200

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 KIAA652 and RPTOR; however such data need additional evidences. Plays a role early in neuronal differentiation and is required for granule cell axon formation.

Note: This product is for in vitro research use only