ULK1 Conjugated Antibody

Catalog No: #C49570

Package Size: #C49570-AF350 100ul #C49570-AF405 100ul #C49570-AF488 100ul #C49570-AF555 100ul #C49570-AF594 100ul #C49570-AF647 100ul #C49570-AF680 100ul #C49570-AF750 100ul #C49570-Biotin 100ul

Orders: order@signalwayantibody.com
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Description

Product Name	ULK1 Conjugated Antibody
Host Species	Rabbit
Clonality	Monoclonal
Species Reactivity	Hu, Ms, Rt
Immunogen Description	recombinant protein
Conjugates	Biotin AF350 AF405 AF488 AF555 AF594 AF647 AF680 AF750
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;
Excitation Emission	AF350: 346nm/442nm AF405: 401nm/421nm AF488: 493nm/519nm AF555: 555nm/565nm AF594: 591nm/614nm AF647: 651nm/667nm AF680: 679nm/702nm AF750: 749nm/775nm
Calculated MW	112 kDa
Formulation	0.01M Sodium Phosphate, 0.25M NaCl, pH 7.6, 5mg/ml Bovine Serum Albumin, 0.02% Sodium Azide
Storage	Store at 4°C in dark for 6 months

Application Details

Suggested Dilution:

AF350 conjugated: most applications: 1: 50 - 1: 250

AF405 conjugated: most applications: 1: 50 - 1: 250

AF488 conjugated: most applications: 1: 50 - 1: 250

AF555 conjugated: most applications: 1: 50 - 1: 250

AF594 conjugated: most applications: 1: 50 - 1: 250

AF647 conjugated: most applications: 1: 50 - 1: 250

AF680 conjugated: most applications: 1: 50 - 1: 250

AF750 conjugated: most applications: 1: 50 - 1: 250

Biotin conjugated: working with enzyme-conjugated streptavidin, most applications: 1: 50 - 1: 1,000

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.

Note: This product is for in vitro research use only