ULK1(Phospho-Ser637) Conjugated Antibody

Catalog No: #C12872

Package Size: #C12872-AF350 100ul #C12872-AF405 100ul #C12872-AF488 100ul #C12872-AF555 100ul #C12872-AF594 100ul #C12872-AF647 100ul #C12872-AF680 100ul #C12872-AF750 100ul #C12872-Biotin 100ul

Orders: order@signalwayantibody.com
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Description

Product Name	ULK1(Phospho-Ser637) Conjugated Antibody
Host Species	Rabbit
Clonality	Polyclonal
Species Reactivity	Hu Ms
Specificity	Phospho-ULK1(S637) Antibody detects endogenous levels of ULK1 only when phosphorylated at S637
Immunogen Description	A synthesized peptide derived from human ULK1(Phospho-Ser637)
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#:O75385NCBI Gene ID:8408NCBI mRNA#:NCBI Protein#:
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	140-150
Formulation	0.01M Sodium Phosphate, 0.25M NaCl, pH 7.6, 5mg/ml Bovine Serum Albumin, 0.02% Sodium Azide
Storage	Store at 4°Cin 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

Product Description

Two related serine/threonine kinases, UNC-51-like kinase -1 and -2 (ULK1, ULK2), were discovered as mammalian homologs of the C. elegans gene UNC-51 in which mutants exhibited abnormal axonal extension and growth (1-4). Both proteins are widely expressed and contain an amino-terminal kinase domain followed by a central proline/serine rich domain and a highly conserved carboxy-terminal domain. The roles of ULK1 and ULK2 in axon growth have been linked to studies showing that the kinases are localized to neuronal growth cones and are involved in endocytosis of critical growth factors such as NGF (5). Yeast two-hybrid studies found ULK1/2 associated with modulators of the endocytic pathway, SynGap, and syntenin (6). Structural similarity of ULK1/2 has also been recognized with the yeast autophagy protein Atg1/Apg1 (7). Knockdown experiments using siRNA demonstrated that ULK1 is essential for autophagy (8), a catabolic process for the degradation of bulk cytoplasmic contents (9,10). It appears that Atg1/ULK1 can act as a convergence point for multiple signals that control autophagy (11), and can bind to several autophagy-related (Atg) proteins, regulating phosphorylation states and protein trafficking (12-16).

Note: This product is for in vitro research use only