

## Immunotag™ Phospho-ULK1 (Ser467) Antibody

Antibody Specification	
Catalog No.	ITA0760
Product Description	Immunotag™ Phospho-ULK1 (Ser467) Antibody
Size	100 µg, 200 µg
Conjugation	HRP, Biotin, FITC, Alexa Fluor® 350, Alexa Fluor® 405, Alexa Fluor® 488, Alexa Fluor® 555, Alexa Fluor® 594, Alexa Fluor® 647
IMPORTANT NOTE	This product is custom manufactured with a lead time of 3-4 weeks. Once in production, this item cannot be cancelled from an order and is not eligible for return.
Target Protein	Phospho-ULK1 (Ser467)
Clonality	Polyclonal
Storage/Stability	-20°C/1 year
Application	WB,IHC
Recommended Dilution	WB 1:500-1:2000, IHC 1:50-1:200
Concentration	1 mg/ml
Reactive Species	Human,Mouse,Rat
Host Species	Rabbit
Immunogen	A synthesized peptide derived from human ULK1 around the phosphorylation site of Ser467.
Specificity	Phospho-ULK1 (Ser467) Antibody detects endogenous levels of ULK1.
Purification	The antibody is from purified rabbit serum by affinity purification via sequential chromatography on phospho- and non-phospho-peptide affinity columns.
Form	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.Store at -20 °C.Stable for 12 months from date of receipt
Gene Name	ULK1
Accession No.	O75385

## Antibody Specification

Alternate Names	ATG 1; ATG1; ATG1 autophagy related 1 homolog; ATG1A; Autophagy related protein 1 homolog; Autophagy-related protein 1 homolog; FLJ38455; FLJ46475; hATG1; KIAA0722; Serine/threonine protein kinase ULK1; Serine/threonine protein kinase Unc51.1; Serine/threonine-protein kinase ULK1; ULK 1; ULK1; ULK1_HUMAN; Unc 51 (C. elegans) like kinase 1; UNC 51; Unc 51 like kinase 1; Unc-51 like kinase 1 (C. elegans); Unc-51-like kinase 1; UNC51; UNC51, C. elegans, homolog of; Unc51.1;
Description	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 (PubMed:25040165).
Cell Pathway/ Category	Primary Polyclonal Antibody
Protein MW	140-150kDa
Usage	For Research Use Only! Not for diagnostic or therapeutic procedures.