

## ULK1 Rabbit pAb

db5686

Package : 20µL 50µL 100µL

**Product Name** : ULK1 Rabbit pAb**Cat.No.:** db5686**Synonyms** : ATG1; ATG1A; UNC51; hATG1; Unc51.1**Application** : WB**Reactivity** : Human**Host species** : Rabbit**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 (PubMed:25040165).

**Immunogen**

A synthetic peptide of human ULK1

**Gene ID**

8408

**Swiss Prot**

O75385

**Synonyms**

ATG1; ATG1A; UNC51; hATG1; Unc51.1

**Reactivity**

Human

**Application**

WB

**Recommended dilution**

WB: 1:2000-1:10000

**Calculated MW**

113 kDa

**Observed MW**

130 kDa

**Host species**

Rabbit

**Clonality**

Polyclonal

**Isotype**

IgG

<b>Purity</b>	Affinity Purification
<b>Conjugation</b>	Un-conjugated
<b>Storage Stability</b>	Store at -20°C. Supplied in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40% Glycerol, 0.01% sodium azide and 0.05% BSA. Stable for 12 months from date of receipt.