

Recombinant

DGRmAb®

## ULK1 (DGR13983) Rabbit mAb

db15467

Package : 10µL 20µL 50µL 100µL

**Product Name :** ULK1 (DGR13983) Rabbit mAb**Cat.No.:** db15467**Synonyms :** ATG1; ATG1A; UNC51; hATG1; Unc51.1**Application :** WB, IHC-P, ICC/IF**Reactivity :** Human,Mouse,Rat**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.

**Immunogen**

A synthetic peptide of human ULK1

**Gene ID**

8408

**Swiss Prot**

O75385

**Synonyms**

ATG1; ATG1A; UNC51; hATG1; Unc51.1

**Reactivity**

Human,Mouse,Rat

**Application**

WB, IHC-P, ICC/IF

**Recommended dilution**

WB: 1:1000-1:5000

IHC-P: 1:100-1:200

ICC/IF: 1:100

**Calculated MW**

113 kDa

**Observed MW**

130 kDa

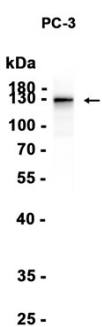
**Host species**

Rabbit

**Clonality**

Monoclonal

Clonality No.	DGR13983
Isotype	IgG
Purity	Affinity Purification
Conjugation	Un-conjugated
Storage Stability	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.



Western blot analysis of extracts from PC-3 cells using db15467 at 1:1000.