Recombinant DGRmAb®

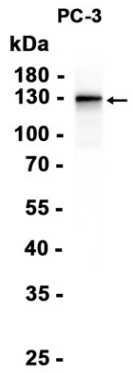
ULK1 (DGR13983) Rabbit mAb (PBS Only)

db15467-PBS **Package : 10μg 100μg**

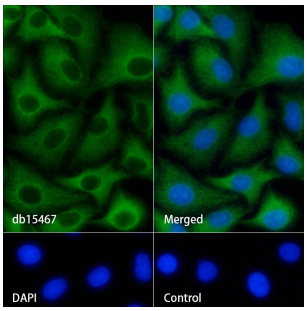
Product Name : ULK1 (DGR13983) Rabbit mAb (PBS Only)
Cat.No.: db15467-PBS
Synonyms : ATG1; ATG1A; UNC51; hATG1; Unc51.1
Application : WB, IHC-P, ICC/IF
Reactivity : Human,Mouse,Rat
Host species : Rabbit

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
Calculated MW	113 kDa
Observed MW	130 kDa
Host species	Rabbit
Clonality	Monoclonal
Clonality No.	DGR13983
Isotype	IgG

Purity	Affinity Purification
Conjugation	Un-conjugated
Concentration	1 mg/mL
Formulation	PBS Only
Storage Stability	Store at -20°C. Recommended to aliquot into single-use vials. Supplied in 1X PBS (pH 7.4). BSA and Azide Free. Stable for 12 months from date of receipt.



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



Immunofluorescence analysis of A549 cells labelling ULK1 with db15467.

The cells were fixed with cold 100% methanol (10min, 4℃) and blocked in 1% BSA/10% normal goat serum/0.3M glycine in 0.1% PBS-Tween 20 for 1h. The cells were then incubate with db15467 (1:100) at room temprature for 1h, followed by a further incubation at room temperature for 45min with Goat Anti Rabbit IgG (H+L)-AF488 (db10005, shown in green). Nuclear DNA was labeled in blue with DAPI.

Control: Secondary antibody only.