Phospho-ULK1 (Ser556) Recombinant antibody, PBS Only

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Catalog Number:80218-1-PBS

Basic Information

Catalog Number:
80218-1-PBS

Size:
100ug , Concentration: 1mg/ml by Nanodrop;

Source:
Rabbit

Isotype:
IgG

GenBank Accession Number:
NM_003565

GeneID (NCBI):
8408

UNIPROT ID:
O75385

Full Name:
unc-51-like kinase 1 (C. elegans)

Observed MW:
140 kDa

Purification Method:
Protein A purification

CloneNo.:
2F5

Applications

Tested Applications:
WB, Indirect ELISA

Species Specificity:
Human, mouse

Background Information

Unc-51-like-kinase 1 (ULK1) is a target of both the mechanistic target of rapamycin (mTOR) and AMP activated protein kinase (AMPK), whose role is to facilitate the initiation of autophagy in response to starvation. ULK1 is phosphorylated on serine 638 and 758 sites by mTOR in nutrient-rich conditions, inhibiting ULK1 activation by disrupting its binding to AMPK. Upon glucose starvation, dissociation of mTOR from ULK1 and phosphorylation by AMPK leads to the activation of ULK1 activity. The S556 site of ULK1 is one of the major AMPK-dependent phosphorylation sites. (PMID: 30517873, PMID: 21258367)
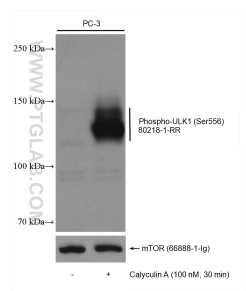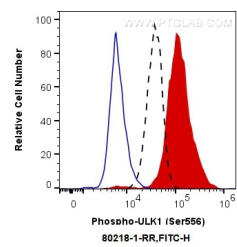
Storage

Storage:
Store at -80℃.
Storage Buffer:
PBS Only

Selected Validation Data

Non-treated and Calyculin A treated PC-3 cells were subjected to SDS PAGE followed by western blot with 80218-1-RR (Phospho-ULK1 (Ser556) antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. The membrane was tripped and re-blotted with mouse anti-mTOR antibody 66888-1-Ig as loading control. This data was developed using the same antibody clone with 80218-1-PBS in a different storage buffer formulation.

1X10^6 PC-3 cells untreated (dashed lines) or treated with Calyculin A (red) were intracellularly stained with 0.5 ug Anti-Human Phospho-ULK1 (Ser556) (80218-1-RR, Clone:2F5) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000, or 0.5 ug Control Antibody (blue). Cells were fixed with 4% PFA and permeabilized with 90% MeOH. This data was developed using the same antibody clone with 80218-1-PBS in a different storage buffer