For Research Use Only

Phospho-ULK1 (Ser556) Recombinant antibody

Catalog Number:80218-1-RR

20 Publications

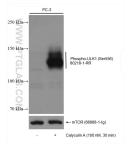


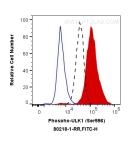
Basic Information	Catalog Number: 80218-1-RR	GenBank Accession Number: NM_003565	Purification Method: Protein A purification	
	Concentration: 500 µg/ml	GenelD (NCBI): 8408	CloneNo.: 2F5	
	Source: Rabbit	UNIPROT ID: O75385	Recommended Dilutions: WB 1:2000-1:10000	
	Isotype: Full Name: IgG unc-51-like kinase 1 (C. elegans)			
		Observed MW: 140 kDa		
Applications	Tested Applications: WB, ELISA, FC (Intra)		Positive Controls:	
	Cited Applications: WB, IHC	WB: PC-3 cells, HeLa cells, Calyculin A treated HeLa cells, Calyculin A treated PC-3 cells		
	Species Specificity: Human, mouse			
	Cited Species: human, mouse, rat, goat			
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)			
	disrupting its binding to AMI AMPK leads to the activation	of ULK1 activity. The S556 site of ULK1 is c	,	
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For technical support and original validation data for this product please contact:T: 4006900926E: Proteintech-CN@ptglab.comW: ptgcn.com

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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. 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 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.