

For Research Use Only

CoraLite® Plus 647-conjugated Phospho-ULK1 (Ser556) Recombinant monoclonal antibody

Catalog Number: CL647-80218



Basic Information

Catalog Number: CL647-80218	GenBank Accession Number: NM_003565	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 ug/ml by Nanodrop;	GeneID (NCBI): 8408	CloneNo.: 2F5
Source: Rabbit	UNIPROT ID: O75385	Recommended Dilutions: FC (Intra): 0.25 ug per 10 ⁶ cells in a 100 µl suspension
Isotype: IgG	Full Name: unc-51-like kinase 1 (C. elegans)	Excitation/Emission maxima wavelengths: 654 nm / 674 nm
	Observed MW: 140 kDa	

Applications

Tested Applications: FC (Intra)	Positive Controls: FC (Intra) : Calyculin A treated HeLa cells,
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)

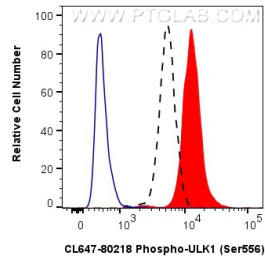
Storage

Storage:
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.
Storage Buffer:
PBS with 50% glycerol, 0.05% Proclin300, 0.5% BSA, pH7.3
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



1X10⁶ HeLa cells untreated (dashed lines) or treated with Calyculin A which intracellularly stained with 0.25 ug Coralite® Plus 647 Phospho-ULK1 (Ser556) Recombinant Antibody (CL647-80218, Clone:2F5)(red), or 0.25 ug Isotype Control (blue). Cells were fixed and permeabilized with Flow Cytometry Phosphorylated Protein Fixation/Permeabilization Kit (PF00026).