

For Research Use Only

CoraLite® Plus 647-conjugated Phospho-ATG4B (Ser383) Recombinant monoclonal antibody

Catalog Number: CL647-85703



Basic Information

Catalog Number: CL647-85703	GenBank Accession Number: BC000719	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 ug/ml by Nanodrop;	GeneID (NCBI): 23192	CloneNo.: 242927A2
Source: Rabbit	UNIPROT ID: Q9Y4P1	Recommended Dilutions: FC (Intra): 0.25 ug per 10 ⁶ cells in a 100 µl suspension
Isotype: IgG	Full Name: ATG4 autophagy related 4 homolog B (S. cerevisiae)	Excitation/Emission maxima wavelengths: 654 nm / 674 nm
	Calculated MW: 44 kDa	
	Observed MW: 44-48 kDa	

Applications

Tested Applications: FC (Intra)	Positive Controls: FC (Intra) : K-562 cells,
Species Specificity: human	

Background Information

ATG4B stimulates autophagy by promoting autophagosome formation through reversible modification of ATG8. In humans, microtubule-associated protein 1 light chain, LC3B, is the best-characterized ATG8 isoform, and ATG4B, but not three other ATG4 isoforms, displays a highly selective preference toward LC3B. MST4 phosphorylates ATG4B at serine residue 383, which stimulates ATG4B activity and increases autophagic flux. (PMID: 29232556, PMID: 36056541)

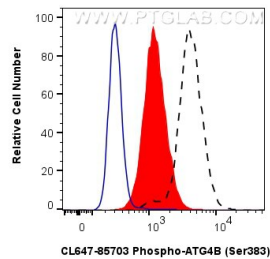
Storage

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 K-562 cells untreated (dashed lines) or treated with λ phosphatase which intracellularly stained with 0.25 μ g Coralite® Plus 647 Phospho-Atg4b (Ser383) Recombinant Antibody (CL647-85703, Clone:242927A2)(red), or 0.25 μ g Isotype Control (blue). Cells were fixed and permeabilized with Flow Cytometry Phosphorylated Protein Fixation/Permeabilization Kit (PF00026).