

For Research Use Only

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

Catalog Number: CL647-85703



Basic Information

Catalog Number:

CL647-85703

Source:

Rabbit

Isotype:

IgG

GenBank Accession Number:

BC000719

GeneID (NCBI):

23192

UNIPROT ID:

Q9Y4P1

Full Name:

ATG4 autophagy related 4 homolog B (S. cerevisiae)

Calculated MW:

44 kDa

Observed MW:

44-48 kDa

Purification Method:

Protein A purification

CloneNo.:

242927A2

Recommended Dilutions:

FC (Intra): 0.25 ug per 10⁶ cells in a 100 µl suspension

Excitation/Emission maxima wavelengths:

654 nm / 674 nm

Applications

Tested Applications:

FC (Intra)

Species Specificity:

human

Positive Controls:

FC (Intra) : K-562 cells,

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:

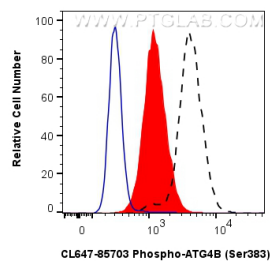
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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



1X10⁶ K-562 cells untreated (dashed lines) or treated with λ phosphatase which intracellularly stained with 0.25 ug Coralite® Plus 647 Phospho-Atg4b (Ser383) Recombinant Antibody (CL647-85703, Clone:242927A2)(red), or 0.25 ug Isotype Control (blue). Cells were fixed and permeabilized with Flow Cytometry Phosphorylated Protein Fixation/Permeabilization Kit (PF00026).