For Research Use Only

Phospho-ATG4B (Ser383) Polyclonal antibody

Catalog Number:29684-1-AP

1 Publications

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Basic Information

Catalog Number:
29684-1-AP

Size:
100ul , Concentration: 800 ug/ml by Nanodrop;

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 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:500-1:2000

Applications

Tested Applications:
WB, ELISA

Cited Applications:
WB

Species Specificity:
Human

Cited Species:
human

Positive Controls:

WB : λ phosphatase treated HeLa 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)

Notable Publications

Author	Pubmed ID	Journal	Application
Kai Li	39608212	Transl Oncol	WB

Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

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)
E: proteintech@ptglab.com
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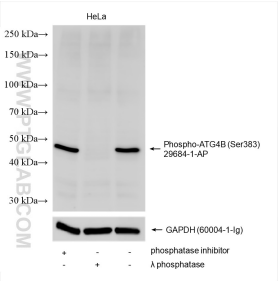
Selected Validation Data



Non-treated HeLa, phosphatase inhibitor treated and λ phosphatase treated HeLa cells were subjected to SDS PAGE followed by western blot with 29684-1-AP (Phospho-ATG4B (Ser383) antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with GAPDH antibody as loading control.