

Atg13 Polyclonal Antibody

ORDERING INFORMATION

Catalog No. 23008 **Size** 100ug

Format: Peptide affinity-purified antibody in PBS, pH 7.4, 50% glycerol, 0.09% sodium azide.

Concentration: 1mg/ml

BACKGROUND

Autophagy is a catabolic process that results in the degradation of bulk cytoplasmic contents within autophagosomes and lysosomes. Atg13 is a target of the TOR kinase signaling pathway that regulates autophagy through the control of the phosphorylation status of Atg13 and ULK1, and the regulation of the Atg13-ULK1-RB1CC1 complex. Under starvation conditions, Atg13 is localized to punctate structures primarily representing the isolation membrane; the isolation membrane sequesters a portion of the cytoplasm resulting in autophagosome formation. Phosphorylation of Atg13 depends on nutrient conditions; it is dephosphorylated during starvation or following treatment with rapamycin. Three isoforms of the human protein are produced by alternative splicing.

SPECIFICATION SUMMARY

Antigen: Synthetic peptide corresponding to mid-protein amino acids of human Atg13.

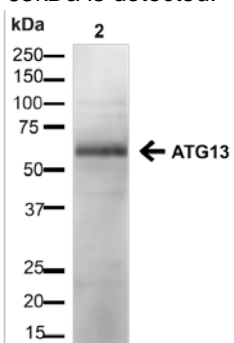
Accession no. NP_001136145.1 **Gene ID** 9776 **SwissProt** O75143

Host Species: Rabbit

Specificity: This antibody recognizes human Atg13.

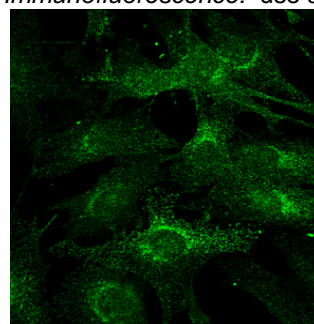
APPLICATIONS

Immunoblotting: use at 1-2ug/ml. A band of ~56-63kDa is detected.



Detection of Atg13 in HEK 293 cell lysate.

Immunofluorescence: use at 10ug/ml.



Detection of Atg13 in formaldehyde-fixed C2C12 cells.

These are recommended concentrations.

Endusers should determine optimal concentrations for their applications.

DILUTION INSTRUCTIONS

Dilute in PBS or medium that is identical to that used in the assay system.

STORAGE AND STABILITY

This antibody is stable for at least one (1) year at -20°C. Store product in appropriate aliquots to avoid multiple freeze-thaw cycles.

For in vitro investigational use only. Not for use in therapeutic or diagnostic procedures.