Atg2A Polyclonal Antibody

ORDERING INFORMATION

Catalog No.	Size
23001	100ug

Format: Peptide affinity-purified antibody in PBS, pH 7.4, 50% glycerol, 0.09% sodium azide.
Concentration: 1mg/ml

BACKGROUND

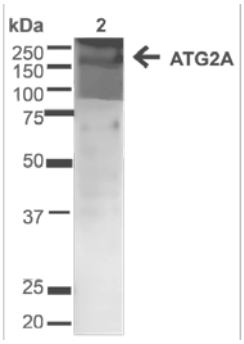
Autophagy is a catabolic process that results in the degradation of bulk cytoplasmic contents within autophagosomes and lysosomes. Two human Atg2 homologs (Atg2A, Atg2B) are critical for autophagosome formation as silencing of both results in the accumulation of unclosed autophagic structures. Starvation-induced autophagy targets Atg2A to the initiation site of autophagosome biogenesis, where it associates with DFCP1, WIPI-1, and other autophagy-related proteins. Atg2 proteins also function in lipid droplet metabolism as depletion of both Atg2A and AtgB results in changes in the size, number, and distribution of lipid droplets. An increase in Atg2A expression during etoposide- and doxorubicin-induced apoptosis suggests that Atg2A may be a useful indicator of topoisomerase II inhibitor-mediated apoptosis.

SPECIFICATION SUMMARY

Antigen: Synthetic peptide corresponding to amino acids at the C-terminus of human ATG2A.
Accession no. NP_055919.2 **Gene ID** 23130 **SwissProt** Q2TAZ0
Host Species: Rabbit
Specificity: This antibody recognizes human Atg2A.

APPLICATIONS

Immunoblotting: use at 1-2ug/ml. A band of ~213kDa is detected.



Detection of Atg2A in 20ug HeLa cell lysate.
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 -20oC. 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.

QED Bioscience, Inc.
10919 Technology Place, Suite C
San Diego, CA 92127

Toll Free 800.929.2114
Phone 858.675.2405
Fax 858.592.1509
info@qedbio.com