

Product Name: ATG5 Mouse Monoclonal Antibody

Catalog #: AMM81461

For research use only.

Summary

Description Mouse monoclonal Antibody

Host Mouse

Application WB,ICC,ELISA,FC

Reactivity Human

ConjugationUnconjugatedModificationUnmodifiedIsotypeMouse IgG2aClonalityMonoclonalFormLiquid

Concentration 1mg/ml

Storage Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.

Shipping Ice bags

Buffer Purified antibody in PBS with 0.05% sodium azide

Purification Affinity Purification

Application

Dilution Ratio WB 1:500-1:2000,ICC 1:200-1:1000,ELISA 1:5000-1:20000,FC 1:200-1:400

Molecular Weight 32.4kDa

Antigen Information

Gene Name ATG5

Alternative Names ASP; APG5; APG5L; hAPG5; APG5-LIKE

 Gene ID
 9474.0

 SwissProt ID
 Q9H1Y0

Immunogen Synthesized peptide of human ATG5 (AA: MTDDKDVLRDVWFGRIc).

Background

ATG5 involved in autophagic vesicle formation. Conjugation with ATG12, through a ubiquitin-like conjugating system involving ATG7 as an E1-like activating enzyme and ATG10 as an E2-like conjugating enzyme, is essential for its function. The ATG12-ATG5 conjugate acts as an E3-like enzyme which is required for lipidation of ATG8 family proteins and their association to the

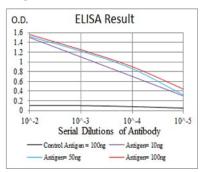


vesicle membranes. Involved in mitochondrial quality control afteroxidative damage, and in subsequent cellular longevity. The ATG12-ATG5 conjugate also negatively regulates theinnate antiviral immune response by blocking the type I IFN production pathway through direct association withRARRES3 and MAVS. Also plays a role in translation or delivery of incoming viral RNA to the translationapparatus. Plays a critical role in multiple aspects of lymphocyte development and is essential for both B and Tlymphocyte survival and proliferation. Required for optimal processing and presentation of antigens for MHC II.Involved in the maintenance of axon morphology and membrane structures, as well as in normal adipocytedifferentiation. Promotes primary ciliogenesis through removal of OFD1 from centriolar satellites and degradation of IFT20 via the autophagic pathway

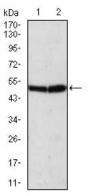
Research Area

Autophagy, Apoptosis

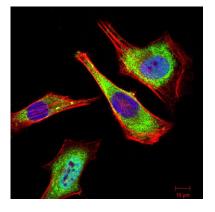
Image Data



Black line: Control Antigen (100 ng); Purple line: Antigen(10ng); Blue line: Antigen (50 ng); Red line: Antigen (100 ng);



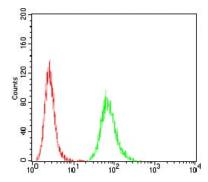
Western blot analysis using ATG5 mouse mAb against Hela (1) and K562 (2) cell lysate.



Immunofluorescence analysis of Hela cells using ATG5 mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor- 555 phalloidin.

Web: https://www.enkilife.com E-mail: order@enkilife.com techsupport@enkilife.com Tel: 0086-27-87002838





Flow cytometric analysis of Hela cells using ATG5 mouse mAb (green) and negative control (red).