

Apg5/Atg Blocking Peptide
Catalog # PBV10411b**Specification**

Apg5/Atg Blocking Peptide - Product Information

Primary Accession	Q3MQ06
Other Accession	CAJ31281
Gene ID	365601
Calculated MW	32398

Apg5/Atg Blocking Peptide - Additional Information**Application & Usage**

The peptide is used for blocking the antibody activity of Apg5/Atg5. It usually blocks the antibody activity completely in Western blot analysis by incubating the peptide with equal volume of antibody for 30-60 minutes at 37°C.

Target/Specificity

Apg5/Atg

Formulation

50 µg (0.5 mg/ml) in phosphate buffered saline (PBS), pH 7.2, containing 50% glycerol, 1% BSA and 0.02% thimerosal.

Reconstitution & Storage

-20 °C

Background Descriptions**Precautions**

Apg5/Atg Blocking Peptide is for research use only and not for use in diagnostic or therapeutic procedures.

Apg5/Atg Blocking Peptide - Protein Information

Name Atg5 {ECO:0000312|EMBL:CAJ31281.1}

Function

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 after oxidative damage, and in subsequent cellular longevity. Plays a critical role in multiple aspects of lymphocyte development and is essential for both B and T lymphocyte 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 adipocyte differentiation. Promotes primary ciliogenesis through removal of OFD1 from centriolar satellites and degradation of IFT20 via the autophagic pathway.

Cellular Location

Cytoplasm {ECO:0000250|UniProtKB:Q9H1Y0}. Preautophagosomal structure membrane; Peripheral membrane protein. Note=The conjugate detaches from the membrane immediately before or after autophagosome formation is completed Localizes also to discrete punctae along the ciliary axoneme and to the base of the ciliary axoneme.

Apg5/Atg Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Apg5/Atg Blocking Peptide - Images