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APG12/ATG12 Blocking Peptide

Catalog # PBV10433b

Specification

APG12/ATG12 Blocking Peptide - Product Information

Primary Accession	Q9CQY1
Gene ID	67526
Calculated MW	15207

APG12/ATG12 Blocking Peptide - Additional Information

Gene ID 67526

Application & Usage	**The peptide is used for blocking the antibody activity of Apg12/Atg12. 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.**

Other Names
Ubiquitin-like protein ATG12, Autophagy-related protein 12, APG12-like, Atg12, Apg12, Apg12l

Target/Specificity
APG12/ATG12

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
APG12/ATG12 Blocking Peptide is for research use only and not for use in diagnostic or therapeutic procedures.

APG12/ATG12 Blocking Peptide - Protein Information

Name Atg12

Synonyms Apg12, Apg12l

Function
Ubiquitin-like protein involved in autophagy vesicles formation. Conjugation with ATG5 through a ubiquitin-like conjugating system involving also 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.

Cellular Location
Cytoplasm. Preautophagosomal structure membrane {ECO:0000250|UniProtKB:O94817}; Peripheral membrane protein {ECO:0000250|UniProtKB:O94817}. Note=TECPR1 recruits the ATG12- ATG5 conjugate to the autolysosomal membrane {ECO:0000250|UniProtKB:O94817}

Tissue Location
Ubiquitous.

APG12/ATG12 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 Cytomety
- Cell Culture

APG12/ATG12 Blocking Peptide - Images