

**APG12/ATG12 Blocking Peptide**  
**Catalog # PBV10433b****Specification**

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**APG12/ATG12 Blocking Peptide - Product Information**

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|-------------------|------------------------|
| Primary Accession | <a href="#">O9COY1</a> |
| Gene ID           | <b>67526</b>           |
| Calculated MW     | <b>15207</b>           |

**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 {ECO:0000312|MGI:MGI:1914776}**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 Cytometry](#)
- [Cell Culture](#)

**APG12/ATG12 Blocking Peptide - Images**