

Apg12 Antibody
Rabbit mAb
Catalog # AP91579

Specification

Apg12 Antibody - Product Information

Application	WB, IHC, ICC
Primary Accession	O94817
Clonality	Monoclonal
Other Names	
APG12-like; APG12L; ATG12; Autophagy 12; FBR93; HAPG12;	
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	15113 Da

Apg12 Antibody - Additional Information

Dilution	WB~~1:1000 IHC~~1:100~500 ICC~~N/A
Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human Apg12
Description	Ubiquitin-like protein required for autophagy. Conjugated to ATG3 and ATG5.
Storage Condition and Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

Apg12 Antibody - Protein Information

Name ATG12 ([HGNC:588](#))

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. As part of the ATG8 conjugation system with ATG5 and ATG16L1, required for recruitment of LRRK2 to stressed lysosomes and induction of LRRK2 kinase activity in response to lysosomal stress (By similarity).

Cellular Location

Cytoplasm. Preautophagosomal structure membrane; Peripheral membrane protein. Note=TECPR1

recruits the ATG12- ATG5 conjugate to the autolysosomal membrane

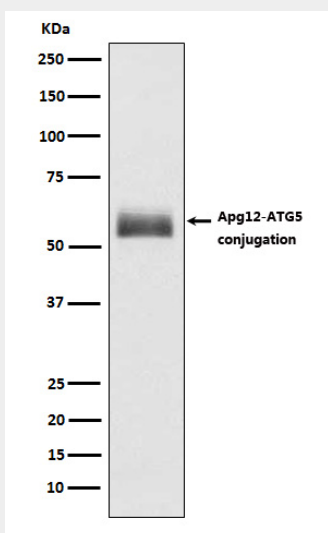
Tissue Location

Ubiquitous..

Apg12 Antibody - 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 Antibody - Images

Western blot analysis of Apg12 expression in HepG2 cell lysate.