

Anti-Apg12 (Atg12) Rabbit Monoclonal Antibody
Catalog # ABO14170**Specification****Anti-Apg12 (Atg12) Rabbit Monoclonal Antibody - Product Information**

Application	WB, IHC, IF, ICC
Primary Accession	O94817
Host	Rabbit
Isotype	Rabbit IgG
Reactivity	Human
Clonality	Monoclonal
Format	Liquid

Description

Anti-Apg12 (Atg12) Rabbit Monoclonal Antibody . Tested in WB, IHC, ICC/IF applications. This antibody reacts with Human.

Anti-Apg12 (Atg12) Rabbit Monoclonal Antibody - Additional Information

Gene ID 9140

Other Names

Ubiquitin-like protein ATG12, Autophagy-related protein 12, APG12-like, ATG12 ([HGNC:588](http://www.genenames.org/cgi-bin/gene_symbol_report?hgnc_id=588)), APG12, APG12L

Calculated MW

15113 MW KDa

Application Details

WB 1:1000-1:5000
IHC 1:50-1:200
ICC/IF 1:50-1:200

Subcellular Localization

Cytoplasm. Preautophagosomal structure membrane ; Peripheral membrane protein. TECPR1 recruits the ATG12-ATG5 conjugate to the autolysosomal membrane.

Tissue Specificity

Ubiquitous..

Contents

Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.

Immunogen

A synthesized peptide derived from human Apg12 (Atg12)

Purification

Affinity-chromatography

Storage

Store at -20°C for one year. For short term

storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.

Anti-Apg12 (Atg12) Rabbit Monoclonal 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.

Cellular Location

Cytoplasm. Preautophagosomal structure membrane; Peripheral membrane protein. Note=TECPRI recruits the ATG12- ATG5 conjugate to the autolysosomal membrane

Tissue Location

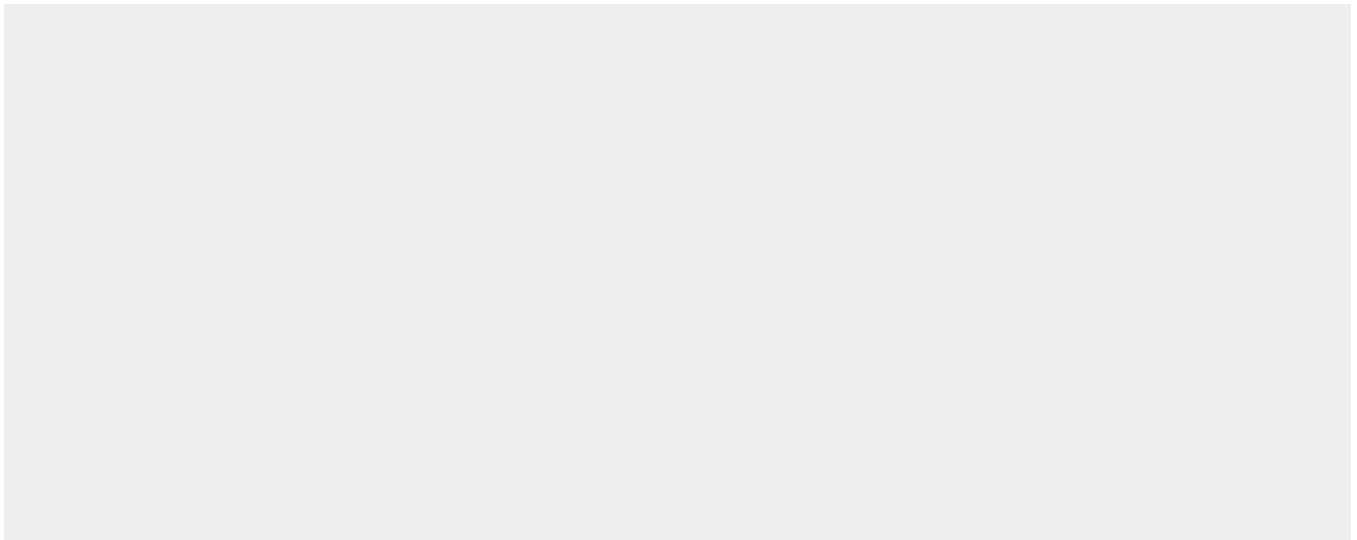
Ubiquitous..

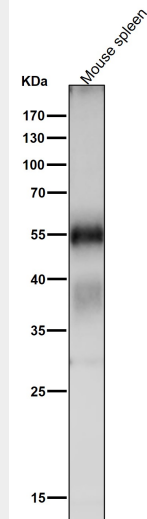
Anti-Apg12 (Atg12) Rabbit Monoclonal Antibody - Protocols

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

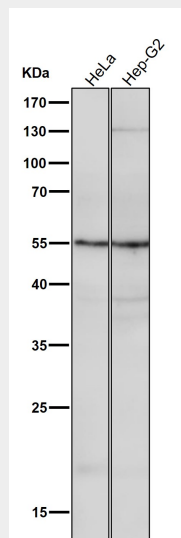
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-Apg12 (Atg12) Rabbit Monoclonal Antibody - Images

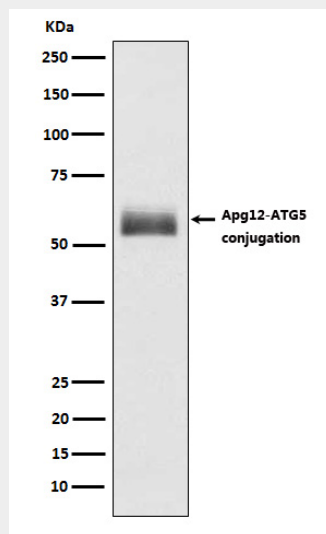




All lanes use the Antibody at 1:1K dilution for 1 hour at room temperature.



All lanes use the Antibody at 1:1K dilution for 1 hour at room temperature.



Western blot analysis of Apg12 expression in HepG2 cell lysate.