

## Mouse anti-Human, Rat Atg5 Monoclonal Antibody | anti-ATG5 antibody

Anti-Atg5 Antibody

|                               |                      |                                 |                                     |
|-------------------------------|----------------------|---------------------------------|-------------------------------------|
| CATALOG #<br><b>AAA290884</b> | HOST<br><b>Mouse</b> | REACTIVITY<br><b>Human, Rat</b> | APPLICATIONS<br><b>Western Blot</b> |
|-------------------------------|----------------------|---------------------------------|-------------------------------------|

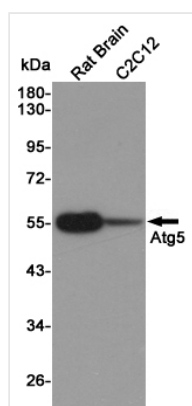
### PRODUCT SYNONYMS

Atg5; Monoclonal Antibody; Anti-Atg5 Antibody; APG 5; APG 5L; APG5; APG5 autophagy 5 like; APG5 like; APG5-like; APG5L; Apoptosis specific protein; Apoptosis-specific protein; ASP; ATG 5; ATG5 autophagy related 5 homolog; ATG5\_HUMAN; Autophagy protein 5; hAPG5; Homolog of S Cerevisiae autophagy 5; OTTHUMP00000040507.; anti-ATG5 antibody

### PRODUCT SPECIFICATIONS

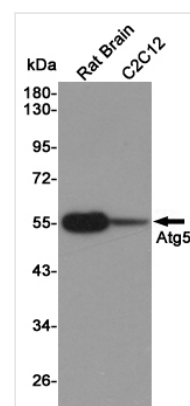
|                                                |                                                                                                                                                                                                                                                                                                                                                     |
|------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                           | Mouse                                                                                                                                                                                                                                                                                                                                               |
| Reactivity                                     | Human, Rat                                                                                                                                                                                                                                                                                                                                          |
| Clonality                                      | Monoclonal                                                                                                                                                                                                                                                                                                                                          |
| Isotype                                        | IgG1                                                                                                                                                                                                                                                                                                                                                |
| Form/Format                                    | Purified mouse monoclonal antibody in PBS (pH 7.4) containing with 0.03% Proclin300 and 50% glycerol.                                                                                                                                                                                                                                               |
| Sequence Length                                | 275                                                                                                                                                                                                                                                                                                                                                 |
| Applicable Applications for anti-ATG5 antibody | WB (Western Blot)                                                                                                                                                                                                                                                                                                                                   |
| Cellular Location                              | Cytoplasm. Preautophagosomal structure membrane; Peripheral membrane protein. Note=Colocalizes with nonmuscle actin. The conjugate detaches from the membrane immediately before or after autophagosome formation is completed (By similarity). Localizes also to discrete punctae along the ciliary axoneme and to the base of the ciliary axoneme |
| Tissue Location                                | Ubiquitous. The mRNA is present at similar levels in viable and apoptotic cells, whereas the protein is dramatically highly expressed in apoptotic cells                                                                                                                                                                                            |
| Preparation and Storage                        | Store at -20 degree C. Stable for 12 months from date of receipt                                                                                                                                                                                                                                                                                    |

### IMAGES



#### WB (Western Blot)

Western blot detection of Atg5 in Rat Brain and C2C12 cell lysates using Atg5 mouse mAb (1:1000 diluted). Predicted band size: 55KDa. Observed band size: 55KDa.



#### WB (Western Blot)

Western blot detection of Atg5 in HCT116, Rat Brain, K562 and C6 cell lysates using Atg5 mouse mAb (1:1000 diluted). Predicted band size: 55KDa. Observed band size: 55KDa.

ADDITIONAL INFORMATION

|                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-ATG5 antibody | 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. The ATG12-ATG5 conjugate also negatively regulates the innate antiviral immune response by blocking the type I IFN production pathway through direct association with RARRES3 and MAVS. Also plays a role in translation or delivery of incoming viral RNA to the translation apparatus. 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. |
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NCBI AND UNIPROT INFORMATION

|                                  |                                                |
|----------------------------------|------------------------------------------------|
| NCBI GI #                        | 554790362                                      |
| NCBI GeneID                      | 9474                                           |
| NCBI Accession #                 | NP_001273035.1                                 |
| NCBI GenBank Nucleotide #        | NM_001286                                      |
| UniProt Accession #              | Q9H1Y0; O60875; Q5JVR2; Q68DI4; Q9H2B8; Q9HCZ7 |
| Molecular Weight                 | 55KDa                                          |
| NCBI Official Full Name          | autophagy protein 5 isoform a                  |
| NCBI Official Synonym Full Names | autophagy related 5                            |
| NCBI Official Symbol             | ATG5                                           |
| NCBI Official Synonym Symbols    | ASP; APG5; APG5L; hAPG5; APG5-LIKE             |
| NCBI Protein Information         | autophagy protein 5                            |
| UniProt Protein Name             | Autophagy protein 5                            |
| UniProt Gene Name                | ATG5                                           |
| UniProt Synonym Gene Names       | APG5L; ASP                                     |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | [contact@aaabiotech.com](mailto:contact@aaabiotech.com)  
Online datasheet: <https://stage.aaabiotech.com/monoclonal/atg5-antibody-western-blot-elisa/290884>