

## Mouse ATG5 Monoclonal Antibody | anti-ATG5 antibody

ATG5 (Autophagy Marker)

|                               |                      |                                               |                                                                  |
|-------------------------------|----------------------|-----------------------------------------------|------------------------------------------------------------------|
| CATALOG #<br><b>AAA214715</b> | HOST<br><b>Mouse</b> | REACTIVITY<br><b>Human. Others not known.</b> | APPLICATIONS<br><b>Immunohistochemistry, Western Blot, ELISA</b> |
|-------------------------------|----------------------|-----------------------------------------------|------------------------------------------------------------------|

### PRODUCT SYNONYMS

ATG5; Monoclonal Antibody; ATG5 (Autophagy Marker); Autophagy protein 5 (APG5); APG5 autophagy 5 like (APG5L); Apoptosis-specific protein (ASP); Autophagy related 5; hAPG5; anti-ATG5 antibody

### PRODUCT SPECIFICATIONS

|                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                           | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Reactivity                                     | Human. Others not known.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Clonality                                      | Monoclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Isotype                                        | IgG1, kappa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Clone Number                                   | ATG5/2101                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Specificity                                    | The protein encoded by this gene, in combination with autophagy protein 12, functions as an E1-like activating enzyme in a ubiquitin-like conjugating system. The encoded protein is involved in several cellular processes, including autophagic vesicle formation, mitochondrial quality control after oxidative damage, negative regulation of the innate antiviral immune response, lymphocyte development and proliferation, MHC II antigen presentation, adipocyte differentiation, and apoptosis. The ATG5 protein is essential for autophagy; a process that is usually beneficial for cells to self-degrade their own components when they are no longer useful. |
| Form/Format                                    | 200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Sequence Length                                | 275                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Applicable Applications for anti-ATG5 antibody | IHC (Immunohistochemistry), WB (Western Blot), ELISA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Immunogen                                      | Recombinant fragment of human ATG5 protein (around aa 1-119)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Cellular Localization                          | Cytoplasmic                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Hu-chromosome Location                         | 17p11.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Positive Control                               | THP-1, PANC-1, Raji or HeLa cells. Brain, Ovary, Endometrium, Colon or Duodenum                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

IMAGES



Application Data

Analysis of Protein Array containing more than 19, 000 full-length human proteins using ATG5 Mouse Monoclonal Antibody (ATG5/2101). Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProtTM array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProtTM are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.



SDS\_PAGE

SDS-PAGE Analysis Purified ATG5 Mouse Monoclonal Antibody (ATG5/2101).Confirmation of Integrity and Purity of Antibody.



WB (Western Blot)

Western Blot Analysis of THP-1 Cell and human Brain Tissue Lysate using ATG5 Mouse Monoclonal Antibody (ATG5/2101).



IHC (Immunohiostchemistry)

Formalin-fixed, paraffin-embedded human Endometrium stained with ATG5 Mouse Monoclonal Antibody (ATG5/2101).



IHC (Immunohistochemistry)

Formalin-fixed, paraffin-embedded human Brain stained with ATG5 Mouse Monoclonal Antibody (ATG5/2101).

ADDITIONAL INFORMATION

|            |                                                          |
|------------|----------------------------------------------------------|
| References | Lanza, F., et al. 1991. J. Biol. Chem. 266: 10638-10645. |
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NCBI AND UNIPROT INFORMATION

|                                  |                                                |
|----------------------------------|------------------------------------------------|
| NCBI GI #                        | 554790362                                      |
| NCBI GeneID                      | 9474                                           |
| NCBI Accession #                 | NP_001273035.1                                 |
| NCBI GenBank Nucleotide #        | NM_001286106.1                                 |
| UniProt Accession #              | Q9H1Y0; O60875; Q5JVR2; Q68DI4; Q9H2B8; Q9HCZ7 |
| Molecular Weight                 | 50-32kDa                                       |
| 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; SCAR25; APG5-LIKE     |
| NCBI Protein Information         | autophagy protein 5                            |
| UniProt Protein Name             | Autophagy protein 5                            |
| UniProt Gene Name                | ATG5                                           |

**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.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/atg5-antibody-clone-atg5-2101-immunohistochemistry-western-blot-elisa/214715>