

## Datasheet: AAM79

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|----------------------|---|
| <b>Description:</b>  | RABBIT ANTI ATG5-ATG12 COMPLEX (C-TERMINAL) |
| <b>Specificity:</b>  | ATG5-ATG12 COMPLEX (C-TERMINAL)             |
| <b>Format:</b>       | Purified                                    |
| <b>Product Type:</b> | Polyclonal Antibody                         |
| <b>Isotype:</b>      | Polyclonal IgG                              |
| <b>Quantity:</b>     | 0.1 mg                                      |

## Product Details

### Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit [www.bio-rad-antibodies.com/protocols](http://www.bio-rad-antibodies.com/protocols).

|                            | Yes | No | Not Determined | Suggested Dilution |
|----------------------------|-----|----|----------------|--------------------|
| Flow Cytometry             |     |    | ▪              |                    |
| Immunohistology - Frozen   |     |    | ▪              |                    |
| Immunohistology - Paraffin |     |    | ▪              |                    |
| ELISA                      |     |    | ▪              |                    |
| Immunoprecipitation        |     |    | ▪              |                    |
| Western Blotting           | ▪   |    |                | 1.0 - 2.0ug/ml     |

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

### Target Species

Mouse

### Species Cross Reactivity

Reacts with: Human

**N.B.** Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

### Product Form

Purified IgG - liquid

### Antiserum Preparation

Antiserum to mouse Atg5 was raised by repeated immunisation of rabbits with highly purified antigen. Purified IgG was prepared by affinity chromatography.

### Buffer Solution

Phosphate buffered saline.

|                                       |   |
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| <b>Preservative Stabilisers</b>       | <0.1% Sodium Azide (NaN <sub>3</sub> )  |
| <b>Approx. Protein Concentrations</b> | IgG concentration 1.0mg/ml  |
| <b>Immunogen</b>                      | KLH conjugated synthetic peptide corresponding to amino acids 262-275 of mouse Atg5. The corresponding sequence differs by one amino acid in human.   |
| <b>External Database Links</b>        | <p><b>UniProt:</b></p> <p><a href="#">Q99J83</a>      <a href="#">Related reagents</a></p> <p><a href="#">Q9H1Y0</a>      <a href="#">Related reagents</a></p> <p><a href="#">Q9CQY1</a>      <a href="#">Related reagents</a></p> <p><a href="#">O94817</a>      <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b></p> <p><a href="#">11793</a>    Atg5      <a href="#">Related reagents</a></p> <p><a href="#">9474</a>    ATG5      <a href="#">Related reagents</a></p> <p><a href="#">9140</a>    ATG12     <a href="#">Related reagents</a></p> <p><a href="#">67526</a>    Atg12     <a href="#">Related reagents</a></p>   |
| <b>Synonyms</b>                       | Apg12, APG12, Apg12I, APG12L, Apg5I, APG5L, ASP   |
| <b>RRID</b>                           | AB_10843431   |
| <b>Specificity</b>                    | <p><b>Rabbit anti ATG5-ATG12 Complex antibody</b> recognizes an epitope within the C-Terminal (CT) region of the Atg5-Atg12 complex, which plays a key role in the regulation of autophagy, and is emerging as an important factor in the innate immune response to viruses (<a href="#">Hwang <i>et al.</i> 2012</a>).</p> <p>The Atg5-Atg12 complex interacts with retinoic acid-inducible gene 1 and the adaptor molecule IFN-beta promoter stimulator 1, through caspase recruitment domains, thereby acting as a negative regulator of the type I IFN production pathway, and as a contributor to RNA viral replication within the host cells (<a href="#">Takeshita <i>et al</i> 2008</a>).</p> |
| <b>Western Blotting</b>               | AAM79 detects a band of approximately 56kDa in mouse liver and human U87 cell lysates.  |
| <b>References</b>                     | <ol style="list-style-type: none"> <li>Lang, F. <i>et al.</i> (2015) Apoptotic Cell Death Induced by Resveratrol Is Partially Mediated by the Autophagy Pathway in Human Ovarian Cancer Cells. <a href="#">PLoS One. 10 (6): e0129196.</a></li> <li>Yu, L. <i>et al.</i> (2022) BMAL1 plays a critical role in the protection against cardiac hypertrophy through autophagy <i>in vitro.</i> <a href="#">BMC Cardiovasc Disord. 22 (1): 381.</a></li> </ol>   |
| <b>Storage</b>                        | This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.   |

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

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| <b>Guarantee</b> | 12 months from date of despatch |
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| <b>Health And Safety Information</b> | Material Safety Datasheet documentation #10040 available at: 10040: <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf</a> |
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| <b>Regulatory</b> | For research purposes only |
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## Related Products

### Recommended Secondary Antibodies

- Sheep Anti Rabbit IgG (STAR34...) [FITC](#)
- Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)
- Sheep Anti Rabbit IgG (STAR35...) [RPE](#)
- Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)

### Recommended Useful Reagents

[TidyBlot WESTERN BLOT DETECTION REAGENT:HRP \(STAR209P\)](#)

|                                  |   |                  |   |               |   |
|----------------------------------|---|------------------|---|---------------|---|
| <b>North &amp; South America</b> | Tel: +1 800 265 7376<br>Fax: +1 919 878 3751<br>Email: <a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a> | <b>Worldwide</b> | Tel: +44 (0)1865 852 700<br>Fax: +44 (0)1865 852 739<br>Email: <a href="mailto:antibody_sales_uk@bio-rad.com">antibody_sales_uk@bio-rad.com</a> | <b>Europe</b> | Tel: +49 (0) 89 8090 95 21<br>Fax: +49 (0) 89 8090 95 50<br>Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a> |
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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://bio-rad-antibodies.com/datasheets)  
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