

## Datasheet: AHP2098

|                      |                     |
|----------------------|---------------------|
| <b>Description:</b>  | RABBIT ANTI ATG4B   |
| <b>Specificity:</b>  | ATG4B               |
| <b>Other names:</b>  | APG4B               |
| <b>Format:</b>       | Purified            |
| <b>Product Type:</b> | Polyclonal Antibody |
| <b>Isotype:</b>      | Polyclonal IgG      |
| <b>Quantity:</b>     | 50 µg               |

## 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 (1) | ■   |    |                | 10 ug/ml           |
| ELISA                          |     |    | ■              |                    |
| Immunoprecipitation            |     |    | ■              |                    |
| Western Blotting               | ■   |    |                | 1 ug/ml - 3 ug/ml  |
| Immunofluorescence             |     |    | ■              |                    |
| Functional Assays              |     |    | ■              |                    |

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.

**(1) This product requires antigen retrieval using heat treatment. Citrate buffer, pH 6.0 is recommended for this purpose.**

|                                 |                                                                                                                                                                                            |
|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Target Species</b>           | Human                                                                                                                                                                                      |
| <b>Species Cross Reactivity</b> | Based on sequence similarity, is expected to react with: Zebrafish, Xenopus, Mouse, Rat, Chicken, Fish<br><b>N.B.</b> Antibody reactivity and working conditions may vary between species. |
| <b>Product Form</b>             | Purified IgG - liquid                                                                                                                                                                      |
| <b>Antiserum Preparation</b>    | Antisera to ATG4 were raised by repeated immunisation of rabbits with highly purified antigen. Purified IgG prepared from whole serum by affinity chromatography.                          |
| <b>Buffer Solution</b>          | Phosphate buffered saline                                                                                                                                                                  |
| <b>Preservative Stabilisers</b> | 0.05% Sodium Azide (NaN <sub>3</sub> )<br>0.2% Gelatin                                                                                                                                     |

|                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Approx. Protein Concentrations</b>    | Total protein concentration 0.5 mg/ml                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Immunogen</b>                         | Synthetic peptide corresponding to a portion of the amino acid sequence between 300-450 of human ATG4 – KLH conjugated.                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>External Database Links</b>           | <p><b>UniProt:</b><br/> <a href="#">Q9Y4P1</a>   <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b><br/> <a href="#">23192</a>   ATG4B   <a href="#">Related reagents</a></p>                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Synonyms</b>                          | APG4B, AUTL1, KIAA0943                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Specificity</b>                       | <p><b>Rabbit anti ATG4B antibody</b> recognizes human Cysteine protease ATG4B, also known as AUT-like 1 cysteine endopeptidase, Autophagin-1, Autophagy-related cysteine endopeptidase 1 or Autophagy-related protein 4 homolog B. ATG4B is a 393 amino acid ~45 kDa cytoplasmic cysteine protease. ATG4B is expressed mainly in skeletal muscle tissue but also in brain, heart, liver and pancreas (<a href="#">Mariño et al. 2003</a>).</p> <p>ATG4 is involved in cytoplasm to vacuole transport and is involved in the progress of autophagy (<a href="#">Scherz-Shouval et al. 2007</a>).</p> |
| <b>Histology Positive Control Tissue</b> | Human heart                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Storage</b>                           | <p>Store at +4°C or at -20°C if preferred.</p> <p>Storage in frost-free freezers is not recommended.</p> <p>This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.</p>                                                                                                                                                                                                                                                                              |
| <b>Shelf Life</b>                        | 18 months from date of despatch.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Health And Safety Information</b>     | Material Safety Datasheet documentation #10050 available at:<br>10050: <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10050.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10050.pdf</a>                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Regulatory</b>                        | For research purposes only                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

## Related Products

### Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR54...) [HRP](#)

### Recommended Useful Reagents

[HISTAR DETECTION SYSTEM \(STAR3000A\)](#)

[HISTAR DETECTION SYSTEM \(STAR3000B\)](#)

[HISTAR DETECTION SYSTEM \(STAR3000C\)](#)

[ANTIGEN RETRIEVAL BUFFER, pH8.0 \(BUF025A\)](#)

[ANTIGEN RETRIEVAL BUFFER, pH8.0 \(BUF025C\)](#)

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

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| <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><br>'M279776:160115' | <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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