

## Datasheet: AHP1009

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|----------------------|-----------------------------------|
| <b>Description:</b>  | RABBIT ANTI BECLIN-1 (N-TERMINAL) |
| <b>Specificity:</b>  | BECLIN-1 (N-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 (1) | ▪   |    |                |                    |
| ELISA                          |     |    | ▪              |                    |
| Immunoprecipitation            |     |    | ▪              |                    |
| Western Blotting               | ▪   |    |                | 0.5ug/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.

**(1) This product requires antigen retrieval using heat treatment prior to staining of paraffin sections. Sodium citrate buffer pH 6.0 is recommended for this purpose.**

|                                 |   |
|---------------------------------|---|
| <b>Target Species</b>           | Human   |
| <b>Species Cross Reactivity</b> | Reacts with: Mouse, Rat<br><b>N.B.</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. |
| <b>Product Form</b>             | Purified IgG - liquid   |

**Antiserum Preparation** Antisera to human Beclin-1 (NT) were raised by repeated immunisations of rabbits with highly purified antigen. Purified IgG prepared by affinity chromatography.

|                                |   |
|--------------------------------|---|
| Buffer Solution                | Phosphate buffered saline   |
| Preservative Stabilisers       | 0.02% Sodium Azide (NaN <sub>3</sub> )  |
| Approx. Protein Concentrations | IgG concentration 1.0mg/ml  |
| Immunogen                      | A 17 amino acid peptide located near human Beclin-1 amino-terminus.   |
| External Database Links        | <p><b>UniProt:</b></p> <p><a href="#">Q14457</a>      <a href="#">Related reagents</a></p> <p><a href="#">O88597</a>      <a href="#">Related reagents</a></p> <p><a href="#">Q91XJ1</a>      <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b></p> <p><a href="#">8678</a>      BECN1      <a href="#">Related reagents</a></p> <p><a href="#">56208</a>      Becn1      <a href="#">Related reagents</a></p> <p><a href="#">114558</a>      Becn1      <a href="#">Related reagents</a></p>   |
| Synonyms                       | GT197   |
| RRID                           | AB_609563   |
| Specificity                    | <p><b>Rabbit anti Human Beclin-1 antibody</b> recognizes an epitope within the N-terminal region of Beclin-1, a ~52 kDa coiled-coil protein which shares structural homology with the yeast autophagy gene <i>apg6/vps30</i>.</p> <p>The ability of cells to undergo bulk degradation of endogenous proteins through an autophagosomic-lysosomal pathway, termed autophagy or Type II cell death, is important in the control of cell growth and development. Beclin-1 is a Bcl-2 interacting mammalian gene which not only mediates autophagy, but also functions as a tumor suppressor, being expressed at reduced levels in human breast carcinoma, and may also play a role in defense against viral infection.</p> |
| Western Blotting               | AHP1009 detects a band of approximately 52kDa in human 293 cell lysates.  |
| Further Reading                | <ol style="list-style-type: none"> <li>1. Liang, X.H. <i>et al.</i> (1999) Induction of autophagy and inhibition of tumorigenesis by beclin 1. <a href="#">Nature. 402 (6762): 672-6.</a></li> <li>2. Gozuacik, D. &amp; Kimchi, A. (2004) Autophagy as a cell death and tumor suppressor mechanism. <a href="#">Oncogene. 23 (16): 2891-906.</a></li> <li>3. Liang, X.H. <i>et al.</i> (1998) Protection against fatal Sindbis virus encephalitis by beclin, a novel Bcl-2-interacting protein. <a href="#">J Virol. 72 (11): 8586-96.</a></li> </ol>  |
| Storage                        | 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:<br><a href="https://www.bio-rad-antibodies.com/SDS/AHP1009">https://www.bio-rad-antibodies.com/SDS/AHP1009</a><br>10040 |
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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

[ANTIGEN RETRIEVAL BUFFER, pH8.0 \(BUF025A\)](#)  
[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)  
'M386223:210519'

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