

## Datasheet: AHP1009

**BATCH NUMBER 157059**

<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.**

**Target Species** Human

**Species Cross Reactivity** Reacts with: Mouse, Rat  
**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** Antisera to human Beclin-1 (NT) were raised by repeated immunisations of rabbits with

highly purified antigen. Purified IgG prepared by affinity chromatography.

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<b>Buffer Solution</b>	Phosphate buffered saline
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<b>Preservative Stabilisers</b>	0.02% Sodium Azide (NaN <sub>3</sub> )
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<b>Approx. Protein Concentrations</b>	IgG concentration 1.0mg/ml
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<b>Immunogen</b>	A 17 amino acid peptide located near human Beclin-1 amino-terminus.
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<b>External Database Links</b>	<b>UniProt:</b> <a href="#">Q14457</a> <a href="#">Related reagents</a> <a href="#">O88597</a> <a href="#">Related reagents</a> <a href="#">Q91XJ1</a> <a href="#">Related reagents</a>  <b>Entrez Gene:</b> <a href="#">8678</a> BECN1 <a href="#">Related reagents</a> <a href="#">56208</a> Becn1 <a href="#">Related reagents</a> <a href="#">114558</a> Becn1 <a href="#">Related reagents</a>
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<b>Synonyms</b>	GT197
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<b>RRID</b>	AB_609563
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<b>Specificity</b>	<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. Studies have identified Beclin-1 as a Bcl-2 interacting mammalian gene which not only mediates autophagy, but also functions as a tumour suppressor, being expressed at reduced levels in human breast carcinoma, and may also play a role in defense against viral infection. An increasing number of studies have revealed an interaction between proteins which induce autophagy and those involved in apoptosis and in some instances apoptosis may be dependant upon or delayed by autophagy.</p>
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<b>Western Blotting</b>	AHP1009 detects a band of approximately 52kDa in human 293 cell lysates.
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<b>Further Reading</b>	<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</li></ol>
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novel Bcl-2-interacting protein. [J Virol. 72 \(11\): 8586-96.](#)

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<b>Storage</b>	Store at +4°C or at -20°C if preferred. Storage in frost-free freezers is not recommended. 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.
<b>Guarantee</b>	12 months from date of despatch
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10040 available at: <a href="https://www.bio-rad-antibodies.com/SDS/AHP1009">https://www.bio-rad-antibodies.com/SDS/AHP1009</a> 10040
<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 \(STAR209P\)](#)

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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://www.bio-rad-antibodies.com/datasheets)  
'M363767:200529'

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