

Datasheet: AHP1170

**BATCH NUMBER 270114**

<b>Description:</b>	RABBIT ANTI BAG1 (C-TERMINAL)
<b>Specificity:</b>	BAG1 (C-TERMINAL)
<b>Other names:</b>	Bcl-2-ASSOCIATED ATHANOGENE
<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 - 2ug/ml

Where this antibody 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 antibody for use in their own system using appropriate negative/positive controls.

<b>Target Species</b>	Human
<b>Species Cross Reactivity</b>	<p>Reacts with: Rat, Mouse</p> <p><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.</p>
<b>Product Form</b>	Purified IgG - liquid
<b>Antiserum Preparation</b>	Antisera to BAG1 were raised by repeated immunisations of rabbits with highly purified antigen. Purified IgG prepared by affinity chromatography.

<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.02% Sodium Azide
<b>Approx. Protein Concentrations</b>	IgG concentration 1.0mg/ml
<b>Immunogen</b>	14 amino acid peptide from near the carboxy terminus of human BAG1.
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">Q99933</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">573</a>    BAG1    <a href="#">Related reagents</a></p>
<b>Synonyms</b>	HAP
<b>RRID</b>	AB_844579
<b>Specificity</b>	<p><b>Rabbit anti Human BAG1 antibody</b> recognizes the C-terminal (CT) region of Bcl-2 associated athanogene-1 (BAG1), a co-chaperone protein which binds to and regulates the 70 kDa heat shock proteins (Hsp70/Hsc70). BAG1 has also been shown to interact with the kinase Raf1, a number of steroid and tyrosine kinase receptors, and the Bcl-2 family of proteins. It is thought to function as a molecular switch between cell growth and differentiation, and cell survival.</p> <p>The BAG1 gene encodes three different isoforms; a predominantly cytosolic form of ~36 kDa (BAG1S), a ~46 kDa cytosolic and nuclear form (BAG1M), and a predominantly nuclear form ~50 kD (BAG1L).</p> <p>BAG1 displays potent neuroprotective activity <i>in vivo</i> against stroke, and could be used for reducing brain injury during cerebral ischemia and neurodegenerative diseases (<a href="#">Kermer et al. 2003</a>). BAG1 may also promote chemoresistance, growth factor independence, and anchorage independent cell growth in tumour cells.</p>
<b>Western Blotting</b>	AHP1170 detects a band of approximately 39kDa in PC-3 cell lysate.
<b>Further Reading</b>	<ol style="list-style-type: none"> <li>Götz, R. <i>et al.</i> (2005) Bag1 is essential for differentiation and survival of hematopoietic and neuronal cells. <a href="#">Nat Neurosci. 8 (9): 1169-78.</a></li> <li>Liman, J. <i>et al.</i> (2005) Interaction of BAG1 and Hsp70 mediates neuroprotectivity and increases chaperone activity. <a href="#">Mol Cell Biol. 25 (9): 3715-25.</a></li> <li>Krajewska, M. <i>et al.</i> (2006) Expression of BAG-1 protein correlates with aggressive behavior of prostate cancers. <a href="#">Prostate. 66 (8): 801-10.</a></li> <li>Clemo, N.K. <i>et al.</i> (2005) The role of the retinoblastoma protein (Rb) in the nuclear localization of BAG-1: implications for colorectal tumour cell survival. <a href="#">Biochem Soc Trans. 33 (Pt 4): 676-8.</a></li> </ol>

**Storage** 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.

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**Guarantee** 12 months from date of despatch

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**Health And Safety Information** Material Safety Datasheet documentation #10040 available at:  
<https://www.bio-rad-antibodies.com/SDS/AHP1170>  
10040

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**Regulatory** 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 \(STAR209P\)](#)

**North & South** Tel: +1 800 265 7376

**America** Fax: +1 919 878 3751

Email: [antibody\\_sales\\_us@bio-rad.com](mailto:antibody_sales_us@bio-rad.com)

**Worldwide**

Tel: +44 (0)1865 852 700

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Email: [antibody\\_sales\\_de@bio-rad.com](mailto:antibody_sales_de@bio-rad.com)

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)  
'M363829:200529'

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