

Datasheet: AHP1170

Description:	RABBIT ANTI BAG1 (C-TERMINAL)
Specificity:	BAG1 (C-TERMINAL)
Other names:	Bcl-2-ASSOCIATED ATHANOGENE
Format:	Purified
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	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.

	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.

Target Species	Human
Species Cross Reactivity	Reacts with: Rat, Mouse N.B. Antibody reactivity and working conditions may vary between species.
Product Form	Purified IgG - liquid
Antiserum Preparation	Antisera to BAG1 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
Approx. Protein Concentrations	IgG concentration 1.0mg/ml
Immunogen	14 amino acid peptide from near the carboxy terminus of human BAG1.

**External Database
Links**

UniProt:

[Q99933](#) [Related reagents](#)

Entrez Gene:

[573](#) BAG1 [Related reagents](#)

Synonyms

HAP

Specificity

Rabbit anti Human BAG1 antibody 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.

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).

BAG1 displays potent neuroprotective activity *in vivo* against stroke, and could be used for reducing brain injury during cerebral ischemia and neurodegenerative diseases ([Kermer et al. 2003](#)). BAG1 may also promote chemoresistance, growth factor independence, and anchorage independent cell growth in tumour cells.

Western Blotting

AHP1170 detects a band of approximately 39kDa in PC-3 cell lysate.

Further Reading

1. Gotz, R. *et al.* (2005) Bag1 is essential for differentiation and survival of hematopoietic and neuronal cells. [Nat. Neurosci. 8: 1169-1178.](#)
2. Liman, J. *et al.* (2005) Interaction of BAG1 and Hsp70 mediates neuroprotectivity and increases chaperone activity. [Mol. Cell Biol. 25: 3715-3725.](#)
3. Krajewska, M. *et al.* (2006) Expression of BAG-1 protein correlates with aggressive behavior of prostate cancers. [Prostate. 66: 801-810.](#)
4. Clemo, N.K. *et al.* (2005) The role of the retinoblastoma protein (Rb) in the nuclear localization of BAG-1: implications for colorectal tumour cell survival. [Biochem. Soc. Trans. 33: 676-678.](#)

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.

Shelf Life

18 months from date of despatch.

**Health And Safety
Information**

Material Safety Datasheet documentation #10040 available at:
10040: <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR34...) [FITC](#)

Sheep Anti Rabbit IgG (STAR35...) [RPE](#)
 Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)
 Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)
 Sheep Anti Rabbit IgG (2AB02...) [Biotin](#)
 Sheep Anti Rabbit IgG (STAR36...) [DyLight®488](#), [DyLight®549](#), [DyLight®649](#),
[DyLight®680](#), [DyLight®800](#)

Recommended Useful Reagents

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

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