

Datasheet: AHP1007

Description:	RABBIT ANTI BAP31
Specificity:	BAP31
Other names:	p28
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 (1)			▪	
Immunohistology - Frozen			▪	
Immunohistology - Paraffin	▪			
ELISA			▪	
Immunoprecipitation			▪	
Western Blotting	▪			0.5 - 1ug/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.
Product Form	Purified IgG - liquid
Antiserum Preparation	Antisera to human BAP31 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 ₃)
Approx. Protein Concentrations	IgG concentration 1.0mg/ml

Immunogen A 17 amino acid peptide located in the internal region of human BAP31.

External Database Links

UniProt:
[P51572](#) [Related reagents](#)

Entrez Gene:
[10134](#) BCAP31 [Related reagents](#)

Synonyms BAP31, DXS1357E

Specificity

Rabbit anti human BAP31 recognizes an epitope within the internal region of BAP31 (B cell receptor-associated protein 31), a ~28 kDa conserved type III integral membrane protein of the endoplasmic reticulum (ER), containing two caspase cleavage sites within its cytosolic domain.

BAP31 appears to be a multi-functional ER-associated transport protein which was originally identified through its association with membrane IgD in B lymphocytes. Several proteins have since been shown to associate with BAP31, including the Beta2 integrin receptor CD11b/CD18, and nonmuscle gamma-actin and myosin B heavy chain. BAP31 has become a focus area for apoptosis studies due to its association with Bcl-2 and cleavage by initiator caspases including caspase 1 and 8. Cleavage of BAP31 generates a membrane-integrated p20 fragment which is itself a potent inducer of apoptosis when expressed ectopically.

Western Blotting

AHP1007 detects a band of approximately 28kDa in rat lung cell lysates.

Further Reading

1. Kim, K-M. *et al.* (1994) Two new proteins preferentially associated with membrane immunoglobulin D. [EMBO J. 13: 3793-3800.](#)
 2. Ng, F.W.H. *et al.* (1997) p28 Bap31, a Bcl-2/Bcl-XL- and procaspase-8-associated protein in the Endoplasmic Reticulum. [J. Cell Biol. 139: 327-338.](#)
 3. Ducret, A. *et al.* (2003) The resident endoplasmic reticulum protein, BAP31, associates with gamma-actin and myosin B heavy chain. [Eur. J. Biochem. 270: 342-349.](#)
 4. Zen, K. *et al.* (2004) Association of BAP31 with CD11b/CD18. Potential role in intracellular trafficking of CD11b/CD18 in neutrophils [J. Biol. Chem. 279: 44924-44930.](#)
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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

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

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

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

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