

Datasheet: AHP727

BATCH NUMBER 153066

Description:	RABBIT ANTI PUMA
Specificity:	PUMA
Other names:	PUMA
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 (1)	▪			10 ug/ml
ELISA			▪	
Immunoprecipitation			▪	
Western Blotting	▪			2ug/ml - 4ug/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.

(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	Based on sequence similarity, is expected to react with: Mouse 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 Bcl-2 binding component 3 were raised by repeated immunisations of rabbits with highly purified antigen. Purified IgG was prepared from whole serum by affinity chromatography.

Buffer Solution Phosphate buffered saline

Preservative Stabilisers 0.02% Sodium Azide

Approx. Protein Concentrations IgG concentration 1.0 mg/ml

Immunogen Synthetic peptide ARARQEGSSPEPVEG corresponding to the N-terminus of human Bcl-2 binding component 3.

External Database Links

UniProt:

[Q9BXH1](#) [Related reagents](#)

Entrez Gene:

[27113](#) BBC3 [Related reagents](#)

Synonyms PUMA

RRID AB_324241

Specificity **Rabbit anti PUMA antibody** recognizes the p53 - upregulated modulator of apoptosis, also known as Bcl-2 binding component 3, JFY-1 or Bcl-2. PUMA is a 193 amino acid ~20 kDa pro-apoptotic member of the BCL-2 family.

Bcl-2 binding component 3 is localized to the mitochondria, binds BCL-2 and induces cytochrome C release and apoptosis in response to p53 ([Follis et al. 2013](#)). Four isoforms of PUMA have been described due to alternative splicing. Rabbit anti PUMA antibody is expected to recognize the canonical isoform 1, also known as PUMA alpha, it is not expected to recognize any of the other isoforms of PUMA.

Histology Positive Control Tissue Human breast carcinoma

Western Blotting AHP727 detects a band of approximately 23kDa in K562 cell lysates.

References 1. Naderi, E.H. *et al.* (2009) Activation of cAMP signaling inhibits DNA damage-induced apoptosis in BCP-ALL cells through abrogation of p53 accumulation. [Blood. 114 \(3\): 608-18.](#)

Further Reading 1. Nakano, K. & Vousden, K.H. (2001) PUMA, a novel proapoptotic gene, is induced by p53. [Mol Cell. 7 \(3\): 683-94.](#)

Storage Store at +4°C or at -20°C if preferred.

This product should be stored undiluted.

Storage in frost-free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

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/AHP727 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 (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)
- Sheep Anti Rabbit IgG (STAR35...) [RPE](#)
- Goat Anti Rabbit IgG (H/L) (STAR124...) [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)

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