

## Datasheet: AHP1802

<b>Description:</b>	RABBIT ANTI HUMAN DEFENSIN BETA 3
<b>Specificity:</b>	DEFENSIN BETA 3
<b>Other names:</b>	BD-3
<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	▪			0.5 - 2.0ug/ml
Immunoprecipitation			▪	
Western Blotting	▪			0.1 - 0.2ug/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.

<b>Target Species</b>	Human
<b>Product Form</b>	Purified IgG - lyophilized
<b>Reconstitution</b>	<p>Reconstitute with 0.1ml distilled water</p> <p>Care should be taken during reconstitution as the protein may appear as a film at the bottom of the vial. Bio-Rad recommend that the vial is gently mixed after reconstitution. For long term storage the addition of 0.09% sodium azide is recommended.</p>
<b>Antiserum Preparation</b>	Antiserum to human defensin beta 3 was raised by repeated immunisation of rabbits with highly purified antigen. Purified IgG was prepared by affinity chromatography.
<b>Buffer Solution</b>	Phosphate buffered saline

<b>Preservative Stabilisers</b>	None present
<b>Carrier Free</b>	Yes
<b>Approx. Protein Concentrations</b>	IgG concentration 1.0mg/ml after reconstitution
<b>Immunogen</b>	<a href="#">Recombinant human defensin<math>\beta</math>-3</a>
<b>External Database Links</b>	<p><b>UniProt:</b></p> <p><a href="#">P81534</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b></p> <p><a href="#">55894</a>    DEFB103B    <a href="#">Related reagents</a></p>
<b>Synonyms</b>	BD3, DEFB103, DEFB3
<b>RRID</b>	AB_2091838
<b>Specificity</b>	<p><b>Rabbit anti human Defensin<math>\beta</math>-3 polyclonal antibody</b> recognizes human defensin beta 3 (<a href="#">BD-3</a>), a 45aa ~5 kDa cationic non-haemolytic antimicrobial peptide expressed by <a href="#">epithelial cells</a> and member of the beta-defensin family. Defensin beta 3 is highly expressed in the skin and tonsils and at lower levels in other tissues(<a href="#">Harder <i>et al.</i> 2001</a>).</p> <p>Defensin beta 3 plays an important role in the innate immune response to potentially pathogenic microbes, including <a href="#">multiresistant <i>S. aureus</i> and vancomycin-resistant <i>E. faecium</i></a>.</p>
<b>ELISA</b>	This purified human Defensin $\beta$ -3 antibody may be used in an indirect ELISA with <a href="#">recombinant human Defensin<math>\beta</math>-3</a> (PHP211) as the standard.
<b>References</b>	1. Boesch, A.W. <i>et al.</i> (2013) A multiplexed assay to detect antimicrobial peptides in biological fluids and cell secretions. <a href="#">J Immunol Methods. 397 (1-2): 71-6.</a>
<b>Further Reading</b>	1. Harder, J. <i>et al.</i> (2001) Isolation and characterization of human beta -defensin-3, a novel human inducible peptide antibiotic. <a href="#">J Biol Chem. 276: 5707-13.</a>
<b>Storage</b>	<p>Prior to reconstitution store at -20°C.</p> <p>After reconstitution store at -20°C.</p> <p>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.</p>
<b>Guarantee</b>	12 months from date of despatch
<b>Health And Safety</b>	Material Safety Datasheet documentation #10294 available at:

**Information** <https://www.bio-rad-antibodies.com/SDS/AHP180210294>

**Regulatory** For research purposes only

## 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 \(STAR209P\)](#)

<b>North &amp; South America</b>	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: <a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a>	<b>Worldwide</b>	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: <a href="mailto:antibody_sales_uk@bio-rad.com">antibody_sales_uk@bio-rad.com</a>	<b>Europe</b>	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a>
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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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