

# Datasheet: AHP1781 BATCH NUMBER 151103

Description:	GOAT ANTI HUMAN DEFENSIN ALPHA 1
Specificity:	DEFENSIN ALPHA 1
Other names:	HNP-1
Format:	Purified
Product Type:	Polyclonal Antibody
lsotype:	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 <u>www.bio-rad-antibodies.com/protocols</u> .						
	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		
	Functional Assays				0.4 - 0.6ug/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.						
Target Species	Human						
Product Form	Purified IgG - lyophilised						
Reconstitution	Reconstitute with 0.1ml distilled water 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. N.B. For functional studies do not add sodium azide						

Antiserum Preparation Antiserum to human defensin- $\alpha$ -1 was raised by repeated immunisation of goats with

Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	None present
Carrier Free	Yes
Approx. Protein Concentrations	IgG concentration 1.0mg/ml after reconstitution
Immunogen	Recombinant human defensin-α-1
External Database Links	UniProt: <u>P59665</u> <u>Related reagents</u> Entrez Gene: <u>1667</u> DEFA1 <u>Related reagents</u>
Synonyms	DEF1, DEFA2, MRS
RRID	AB_2091687
Specificity	<b>Goat anti Human defensin</b> $\alpha$ <b>-1 antibody</b> recognizes defensin alpha 1, otherwise known as HNP-1 or neutrophil defensin 1. Defensin $\alpha$ -1 is a secreted cationic antimicrobial peptide and member of the alpha-defensin family, which plays an important role in the innate immune response against microbial infections. Synovial fluid defensin $\alpha$ -1 levels act as a biomarker for the evaluation of periprosthetic
	joint infection, a significant cause of morbidity and burden following prosthetic joint replacement ( <u>Li <i>et al.</i> 2017</u> ).
ELISA	This purified goat anti human defensin- $\alpha$ -1 antibody may be used in an indirect ELISA or as the capture reagent in a sandwich ELISA with <u>recombinant human defensin-<math>\alpha</math>-1</u> (PHP208) as the standard.
Western Blotting	This purified goat anti human defensin- $\alpha$ -1 antibody may be used in Western Blotting applications under either reducing or non-reducing conditions with <u>recombinant human</u> <u>defensin-<math>\alpha</math>-1</u> (PHP208) as the positive control.
References	<ol> <li>Castañeda-Delgado, J.E. <i>et al.</i> (2014) Tuberculin skin test and interferon-gamma release assay values are associated with antimicrobial peptides expression in polymorphonuclear cells during latent tuberculous infection. <u>Mem Inst Oswaldo Cruz. 109: 330-4.</u></li> <li>Alard, J.E. <i>et al.</i> (2015) Recruitment of classical monocytes can be inhibited by disturbing heteromers of neutrophil HNP1 and platelet CCL5. <u>Sci Transl Med. 7 (317): 317ra196.</u></li> </ol>

Storage	Prior to reconstitution store at -20°C. After reconstitution store at -20°C.		
	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		
Health And Safety Information	Material Safety Datasheet documentation #10162 available at: https://www.bio-rad-antibodies.com/SDS/AHP1781 10162		
Regulatory	For research purposes only		

## **Related Products**

### **Recommended Secondary Antibodies**

Rabbit Anti Goat IgG (Fc) (STAR122...) FITC, HRP

North & South	Tel: +1 800 265 7376	Worldwide	Tel: +44 (0)1865 852 700	Europe	Tel: +49 (0) 89 8090 95 21
America	Fax: +1 919 878 3751		Fax: +44 (0)1865 852 739		Fax: +49 (0) 89 8090 95 50
	Email: antibody_sales_us@bio-ra	ad.com	Email: antibody_sales_uk@bio-ra	ad.com	Email: 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 'M372498:200706'

#### Printed on 12 Aug 2023

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