

Datasheet: AHP1781

Description:	GOAT ANTI HUMAN DEFENSIN ALPHA 1
Specificity:	DEFENSIN ALPHA 1
Other names:	HNP-1
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	■			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 - lyophilized
Reconstitution	<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> <p>N.B. For functional studies do not add sodium azide</p>
Antiserum Preparation	Antiserum to human defensin- α -1 was raised by repeated immunisation of goats with highly purified antigen. Purified IgG was prepared by affinity chromatography.

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	<p>UniProt: P59665 Related reagents</p> <p>Entrez Gene: 1667 DEFA1 Related reagents</p>
Synonyms	DEF1, DEFA2, MRS
RRID	AB_2091687
Specificity	<p>Goat anti Human defensin α-1 antibody recognizes defensin alpha 1, otherwise known as HNP-1 or neutrophil defensin 1. Defensin α-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.</p> <p>Synovial fluid defensin α-1 levels act as a biomarker for the evaluation of periprosthetic joint infection, a significant cause of morbidity and burden following prosthetic joint replacement (Li et al. 2017).</p>
ELISA	This purified goat anti human defensin-α-1 antibody may be used in an indirect ELISA or as the capture reagent in a sandwich ELISA with recombinant human defensin-α-1 (PHP208) as the standard.
Western Blotting	This purified goat anti human defensin-α-1 antibody may be used in Western Blotting applications under either reducing or non-reducing conditions with recombinant human defensin-α-1 (PHP208) as the positive control.
References	<ol style="list-style-type: none"> 1. 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. Mem Inst Oswaldo Cruz. 109: 330-4. 2. Alard, J.E. <i>et al.</i> (2015) Recruitment of classical monocytes can be inhibited by disturbing heteromers of neutrophil HNP1 and platelet CCL5. Sci Transl Med. 7 (317): 317ra196.
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 #10294 available at: https://www.bio-rad-antibodies.com/SDS/AHP178110294
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

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

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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
'M420628:230706'

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