

Datasheet: AHP849

BATCH NUMBER 151691

Description:	GOAT ANTI HUMAN DEFENSIN BETA 2
Specificity:	DEFENSIN BETA 2
Other names:	BD-2
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 - Paraffin	▪			
ELISA	▪			0.5 - 2.0ug/ml
Immunoprecipitation			▪	
Western Blotting	▪			0.1 - 0.2ug/ml
Immunofluorescence			▪	
Functional Assays	▪			5.0 - 8.0ug/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.

Target Species Human

Product Form Purified IgG - lyophilised

Reconstitution Reconstitute with 1.0ml 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

Preparation Antisera to human Defensin beta 2 were raised by repeated immunisation of goats with

highly purified antigen. Purified IgG was prepared by affinity chromatography.

Buffer Solution	Phosphate buffered saline
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Preservative Stabilisers	None present
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Carrier Free	Yes
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Approx. Protein Concentrations	IgG concentration 0.1 mg/ml after reconstitution
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Immunogen	Recombinant human Defensin beta-2 (PHP161).
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External Database Links	UniProt: O15263 Related reagents Entrez Gene: 1673 DEFB4A Related reagents
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Synonyms	DEFB102, DEFB2, DEFB4
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RRID	AB_566948
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Specificity	<p>Goat anti Human Defensin beta 2 polyclonal antibody recognizes human Defensin beta-2 (BD-2), a ~4.3kDa cationic antimicrobial peptide, also known as Beta-defensin 4A or Skin-antimicrobial peptide 1 (SAP-1) expressed primarily by epithelial cells of the respiratory tract and skin, and an important component of the innate immune response against microbial infections.</p> <p>Expression of BD-2 is induced during inflammation in response to bacterial products and cytokines, and is initially expressed in a precursor form, which is cleaved to release the C-Terminal active portion of the protein which is secreted by the neutrophil and binds to bacterial membranes causing their disruption.</p>
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ELISA	This purified human BD-2 antibody may be used in an indirect ELISA or as the capture reagent in a sandwich ELISA with a biotinylated human BD-2 antibody (AHP849B) as the detection reagent and recombinant human BD-2 (PHP161) as the standard
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Western Blotting	This purified human BD-2 antibody may be used in Western Blotting applications under either reducing or non-reducing conditions with recombinant human BD-2 (PHP161) as the positive control.
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References	1. Crack, L.R. <i>et al.</i> (2012) Human antimicrobial peptides LL-37 and human β -defensin-2 reduce viral replication in keratinocytes infected with varicella zoster virus. Clin Exp Dermatol. 37 (5): 534-43.
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Further Reading	1. Bals, R. <i>et al.</i> (1998) Human beta-defensin 2 is a salt-sensitive peptide antibiotic
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expressed in human lung. [J Clin Invest. 102 \(5\): 874-80.](#)

2. Harder, J. *et al.* (2000) Mucoid *Pseudomonas aeruginosa*, TNF-alpha, and IL-1beta, but not IL-6, induce human beta-defensin-2 in respiratory epithelia. [Am J Respir Cell Mol Biol. 22 \(6\): 714-21.](#)

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 6 months from date of despatch

Health And Safety Information Material Safety Datasheet documentation #10162 available at:
10162: <https://www.bio-rad-antibodies.com/uploads/MSDS/10162.pdf>

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

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

Recommended Useful Reagents

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

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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)
'M372568:200706'

Printed on 07 Feb 2023

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