Datasheet: AHP849B

Description:	GOAT ANTI HUMAN DEFENSIN BETA 2:Biotin
Specificity:	DEFENSIN BETA 2
Other names:	BD-2
Format:	Biotin
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	50 µg

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	▪			0.25 - 1.0 ug/ml
Immunoprecipitation			▪	
Western Blotting	▪			0.1 - 0.2 ug/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 conjugated to Biotin - lyophilized

Reconstitution

Reconstitute with 0.5 ml sterile PBS containing 0.1% bovine serum albumin
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.

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

Preservative

None present

Stabilisers	
Carrier Free	Yes
Approx. Protein Concentrations	IgG concentration 0.1 mg/ml after reconstitution
Immunogen	Recombinant human Defensin beta-2 (PHP161).
External Database Links	**UniProt:** O15263 Related reagents **Entrez Gene:** 1673 DEFB4A Related reagents
Synonyms	DEFB102, DEFB2, DEFB4
RRID	AB_609622
Specificity	**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. 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.
ELISA	This biotinylated human DB-2 antibody may be used in a direct ELISA or as the detection reagent in a sandwich ELISA with a purified human BD-2 antibody (AHP849) as the capture reagent and recombinant human BD-2 (PHP161) as the standard.
Western Blotting	This biotinylated 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.
References	1. Crack, L.R. *et al.* (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.
Further Reading	1. Bals, R. *et al.* (1998) Human beta-defensin 2 is a salt-sensitive peptide antibiotic 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	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10294 available at: https://www.bio-rad-antibodies.com/SDS/AHP849B 10294
Regulatory	For research purposes only

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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

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