

Datasheet: AHP849B

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|----------------------|----------------------------------------|
| 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 - lyophilised |
| 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 #10162 available at:
10162: <https://www.bio-rad-antibodies.com/uploads/MSDS/10162.pdf>

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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)

'M372569:200706'

Printed on 23 Mar 2021

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