

Datasheet: PHP211

BATCH NUMBER 166836

Description:	RECOMBINANT HUMAN DEFENSIN BETA 3
Name:	DEFENSIN BETA 3
Other names:	BD-3
Format:	Rec. Protein
Product Type:	Recombinant Protein
Quantity:	20 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
ELISA	▪			0.2 - 0.4ng/well
Western Blotting	▪			1.5 - 3.0ng/lane
Functional Assays	▪			

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 recombinant protein - lyophilized

Reconstitution

Reconstitute with 20 µl 10mM acetic acid. 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.

N.B. For long term storage, further dilutions may be made in buffer containing 0.1% bovine serum albumin (BSA).

Preparation

Purified recombinant defensin beta 3 expressed in *E.coli*

Source

E.coli

Preservative Stabilisers

None present

Carrier Free	Yes
Endotoxin Level	< 1.0 EU/ug
Approx. Protein Concentrations	1.0 mg/ml after reconstitution
External Database Links	<p>UniProt: P81534 Related reagents</p> <p>Entrez Gene: 55894 DEF103B Related reagents</p>
Synonyms	BD3, DEF103, DEF3
Product Information	Defensin beta 3 (BD-3) is a cationic non-haemolytic antimicrobial peptide and member of the beta-defensin family, highly expressed by skin and tonsils, which plays an important role in the innate immune response to potentially pathogenic microbes, including multiresistant <i>S. aureus</i> and vancomycin-resistant <i>E. faecium</i> .
Protein Molecular Weight	5.1 kDa (45 amino acid residues)
Activity	Exhibits chemotactic activity on monocytes
Purity	>98% by SDS PAGE and HPLC analysis
ELISA	PHP211 may be used in ELISA applications with AHP1802 .
Western Blotting	PHP211 may be used under reducing or non-reducing western blotting conditions with AHP1802 .
References	1. Boesch, A.W. <i>et al.</i> (2013) A Multiplexed Assay to Detect Antimicrobial Peptides in Biological Fluids and Cell Secretions. J Immunol Methods. pii: S0022-1759(13)00241-X.
Storage	<p>Prior to reconstitution store at -20°C.</p> <p>After reconstitution store at -20°C.</p> <p>Storage in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.</p>
Guarantee	Guaranteed for 3 months from the date of reconstitution or until the date of expiry, whichever comes first. Please see label for expiry date.
Health And Safety Information	Material Safety Datasheet documentation #10268 available at: https://www.bio-rad-antibodies.com/SDS/PHP211 10268

Related Products

Recommended Useful Reagents

[RABBIT ANTI HUMAN DEFENSIN BETA 3 \(AHP1802\)](#)

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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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