

Datasheet: PHP161 BATCH NUMBER 166164

Description:	RECOMBINANT HUMAN DEFENSIN BETA 2
Name:	DEFENSIN BETA 2
Other names:	BD-2
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 <u>www.bio-</u>							
	rad-antibodies.com/protocols. Yes No Not Determined Suggested Dilution							
	ELISA	res	NO	Not Determined	0.2 - 0.4ng/well			
	Western Blotting	-			1.5 - 3.0ng/lane			
	Functional Assays	•			10 - 100ng/ml			
	Where this product has r	not been t	ested for i	ise in a narticular tech				
	•			•	•			
	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 0.2ml 10 mM 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. For extended storage the addition of 0.1% bovine serum albumin (BSA) is recommended.							
Preparation	Purified recombinant BD-2, expressed in <i>E. coli</i>							
Source	E.coli							
Preservative Stabilisers	None present							
Carrier Free	Yes							

Endotoxin Level	< 0.1 ng/ug				
Approx. Protein Concentrations	0.1 mg/ml after reconstitution				
External Database Links	UniProt: <u>O15263</u> <u>Related reagents</u> Entrez Gene: <u>1673</u> DEFB4A <u>Related reagents</u>				
Synonyms	DEFB102, DEFB2, DEFB4				
Product Information	Recombinant human defensin beta-2 (BD-2) , is a 4.3 kDa peptide comprised of 41 amino acid residues. BD-2, a member of the beta defensin family, is secreted at epithelial surfaces of the skin and respiratory tract and by some leukocytes. This defensin is induced by bacterial products and cytokines during inflammation and functions as part of the innate immune system, having a wide ranging antimicrobial activity. BD-2 also functions as a chemoattractant to immature dendritic cells and memory T cells and acts as a ligand for TLR4, upregulating co-stimulatory molecules and inducing dendritic cell maturation.				
Protein Molecular Weight	4.3 kDa (41 amino acid residues)				
Activity	Determined by its ability to chemoattract immature dendritic cells using a concentration of 10.0-100.0 ng/ml				
Purity	>98% by SDS PAGE and HPLC				
Amino Acid Sequence	GIGDPVTCLKSGAICHPVFCPRRYKQIGTCGLPGTKCCKKP				
ELISA	Recombinant human BD-2 may be used as a standard in ELISA applications with either a <u>purified human BD-2 antibody</u> (AHP849) or a <u>biotinylated human BD-2 antibody</u> (AHP489B).				
Western Blotting	Recombinant human BD-2 may be used as the positive control in Western Blotting applications with either a <u>purified human BD-2 antibody</u> (AHP849) or a <u>biotinylated human BD-2 antibody</u> (AHP489B).				
References	 Bals, R. <i>et al.</i> (1998) Human beta-Defensin 2 is a salt-sensitive peptide antibiotic expressed in human lung. <u>J. Clin. Invest. 102: 874-880.</u> Yang, D. <i>et al.</i> (1999) Beta-defensins: linking innate and adaptive immunity through dendritic and T cell CCR6. <u>Science 286: 525-528.</u> 				
Storage	Prior to reconstitution store at -20°C. After reconstitution store at -20°C. 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.					
Guarante	90		teed for 3 mor ver comes first	r until the date of expiry,			
Health And SafetyMaterial Safety Datasheet documentation #10527 availaInformation https://www.bio-rad-antibodies.com/SDS/PHP161 10527						e at:	
Regulato	ry	For res	earch purpose	s only			
North & South America	Tel: +1 800 265 Fax: +1 919 87 Email: antibody	8 3751	Worldwide	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio	Europe -rad.com	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com	
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