

Datasheet: PBP008 BATCH NUMBER 158488

Description:	RECOMBINANT BOVINE INTERLEUKIN-1 BETA
Name:	IL-1 BETA
Format:	Purified
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	-					
	Functional Assays	-					
	Where this protein has n	ot been te	ested for u	ise in a particular tech	nique this does not		
	necessarily exclude its u a guide only.	se in such	n procedu	res. Suggested workin	g dilutions are given as		
Target Species	Bovine						
Species Cross Reactivity	Reacts with: Mouse N.B. Antibody reactivity a reactivity is derived from personal communication further information.	testing wi	ithin our la	aboratories, peer-revie	wed publications or		
Product Form	Purified Recombinant Pr	otein - Iyo	philised				
Reconstitution	Reconstitute with 0.5 ml	distilled w	vater.				
	Further dilutions should be made in a buffer containing carrier protein.						
	Care should be taken du bottom of the vial. Bio-Ra	-					
Preparation	Recombinant protein exp	pressed in	Pichia pa	astoris			
Buffer Solution	Phosphate buffered salin	ie					

Preservative Stabilisers	None present
Endotoxin Level	< 1.0 EU/ug
Approx. Protein Concentrations	40ug/ml after reconstitution
External Database Links	UniProt: P09428 Related reagents Entrez Gene: 281251 IL1B Related reagents
Product Information	Recombinant Bovine Interleukin-1 beta is a recombinant peptide corresponding to full-length mature Bovine Interleukin-1 beta (IL-1 beta) expressed by a number of cell types including monocytes, macrophages and endothelial cells. Interleukin-1 beta, a pro-inflammatory cytokine has a wide range of effects, such as promoting T and B cell proliferation and inducing neutrophil chemotaxis.
Protein Molecular Weight	17.7kD
Purity	>95% by SDS PAGE analysis
ELISA	This product may be used as a standard for ELISA applications with the following interleukin-1 beta antibodies: <u>AHP851Z</u> , <u>AHP851B</u> or <u>MCA1658</u> .
References	 Stradner, M.H. <i>et al.</i> (2008) Spingosine-1-phosphate stimulates proliferation and counteracts interleukin-1 induced nitric oxide formation in articular chondrocytes. <u>Osteoarthritis Cartilage. 16: 305-11.</u> Bougarn, S. <i>et al.</i> (2010) Muramyl dipeptide synergizes with <i>Staphylococcus aureus</i> lipoteichoic acid to recruit neutrophils in the mammary gland and to stimulate mammary epithelial cells. <u>Clin Vaccine Immunol. 17(11):1797-809.</u> Simojoki, H. <i>et al.</i> (2011) Innate immune response in experimentally induced bovine intramammary infection with <i>Staphylococcus simulans</i> and <i>S. epidermidis</i>. <u>Vet Res. 42:</u> <u>49.</u> Vordermeier, M. <i>et al.</i> (2012) Cytokine responses of Holstein and Sahiwal zebu derived monocytes after mycobacterial infection. <u>Trop Anim Health Prod. 44: 651-5.</u> L, D. <i>et al.</i> (2015) Late production of CXCL8 in ruminant oro-nasal turbinate cells in response to <i>Chlamydia abortus</i> infection. <u>Vet Immunol Immunopathol. 168 (1-2): 97-102.</u> JA, C. <i>et al.</i> (2017) In utero exposure to LPS alters the postnatal acute-phase response in beef heifers. <u>Innate Immun. 23 (1): 97-108.</u>
Storage	Prior to reconstitution store at +4°C. Following reconstitution store at -70°C.

	denature the	protein. S	zing and thawing as this may e we recommend		
	12 months fro	at:			
d Safety n	Material Safety Datasheet documentation #10209 available a https://www.bio-rad-antibodies.com/SDS/PBP008 10209				
Regulatory For research purpose North & South merica Tel: +1 800 265 7376 Worldwide Sector Fax: +1 919 878 3751 Fax: +1 919 878 3751 Worldwide		ourposes	s only		
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	n el: +1 800 265 7 Fax: +1 919 878 Email: antibody_s	microcentrifug 12 months fro I Safety Material Safet Material Safet Material Safet Material Safet Material Safet 10209 For research p For research p Fax: +1 919 878 3751 Frail: antibody_sales_us@bio-rad.com	microcentrifugation be 12 months from date of 13 Safety Material Safety Datash https://www.bio-rad-an 10209 For research purposes For research purposes el: +1 800 265 7376 Worldwide Fax: +1 919 878 3751 Finail: antibody_sales_us@bio-rad.com	microcentrifugation before use. 12 months from date of despatch I Safety Material Safety Datasheet documentation #10 <u>https://www.bio-rad-antibodies.com/SDS/PBP(</u> 10209 For research purposes only For research purposes only el: +1 800 265 7376 Worldwide Tel: +44 (0)1865 852 700 fax: +1 919 878 3751 Fax: +44 (0)1865 852 739 Email: antibody_sales_us@bio-rad.com Email: antibody_sales_uk@bio- ch/lot specific datasheet for this product, please use our online s	12 months from date of despatch I Safety Material Safety Datasheet documentation #10209 available a https://www.bio-rad-antibodies.com/SDS/PBP008 10209 r For research purposes only rel: +1 800 265 7376 Worldwide Tel: +44 (0)1865 852 700 Europe rax: +1 919 878 3751 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com ch/lot specific datasheet for this product, please use our online search tool at: b

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