

Datasheet: PBP008

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 www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
ELISA	▪			
Functional Assays	▪			

Where this protein 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.

Target Species

Bovine

Species Cross Reactivity

Reacts with: Mouse

N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

Product Form

Purified Recombinant Protein - lyophilised

Reconstitution

Reconstitute with 0.5 ml distilled water.

Further dilutions should be made in a buffer containing carrier protein.

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.

Preparation

Recombinant protein expressed in *Pichia pastoris*

Buffer Solution

Phosphate buffered saline

Preservative Stabilisers	None present
Endotoxin Level	< 1.0 EU/ug
Approx. Protein Concentrations	40ug/ml after reconstitution
External Database Links	<p>UniProt: P09428 Related reagents</p> <p>Entrez Gene: 281251 IL1B Related reagents</p>
Product Information	<p>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.</p> <p>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.</p>
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: AHP851Z , AHP851B or MCA1658 .
References	<ol style="list-style-type: none"> 1. Stradner, M.H. <i>et al.</i> (2008) Spingosine-1-phosphate stimulates proliferation and counteracts interleukin-1 induced nitric oxide formation in articular chondrocytes. Osteoarthritis Cartilage. 16: 305-11. 2. 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. Clin Vaccine Immunol. 17(11):1797-809. 3. 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>. Vet Res. 42: 49. 4. Vordermeier, M. <i>et al.</i> (2012) Cytokine responses of Holstein and Sahiwal zebu derived monocytes after mycobacterial infection. Trop Anim Health Prod. 44: 651-5. 5. 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. Vet Immunol Immunopathol. 168 (1-2): 97-102. 6. JA, C. <i>et al.</i> (2017) In utero exposure to LPS alters the postnatal acute-phase response in beef heifers. Innate Immun. 23 (1): 97-108.
Storage	<p>Prior to reconstitution store at +4°C.</p> <p>Following reconstitution store at -70°C.</p> <p>Storage in frost-free freezers is not recommended.</p>

This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the protein. 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 #10209 available at:
10209: <https://www.bio-rad-antibodies.com/uploads/MSDS/10209.pdf>

Regulatory For research purposes only

North & South Tel: +1 800 265 7376

America Fax: +1 919 878 3751

Email: antibody_sales_us@bio-rad.com

Worldwide

Tel: +44 (0)1865 852 700

Fax: +44 (0)1865 852 739

Email: antibody_sales_uk@bio-rad.com

Europe

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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