

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
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Species Cross Reactivity	Reacts with: Mouse N.B. Antibody reactivity and working conditions may vary between species.
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Product Form	Purified Recombinant Protein - lyophilised
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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.
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Preparation	Recombinant protein expressed in <i>Pichia pastoris</i>
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Buffer Solution	Phosphate buffered saline
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Preservative Stabilisers	None present
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Endotoxin Level	<0.5EU/ug
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Approx. Protein Concentrations	40ug/ml after reconstitution
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External Database Links	UniProt:
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Entrez Gene:

[281251](#) IL1B [Related reagents](#)

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. Doull, L. <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. pii: S0165-2427(15)00195-6.6. Carroll JA <i>et al.</i> (2016) <i>In utero</i> exposure to LPS alters the postnatal acute-phase response in beef heifers. Innate Immun. Nov 21. pii: 1753425916678472. [Epub ahead of print]7. Doull L <i>et al.</i> (2015) Late production of CXCL8 in ruminant oro-nasal turbinate cells in response to Chlamydia abortus infection. Vet Immunol Immunopathol. 168 (1-2): 97-102.
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> <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.</p>
Shelf Life	12 months from date of reconstitution.
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

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