

## Datasheet: AHP851B

**BATCH NUMBER 153621**

<b>Description:</b>	RABBIT ANTI BOVINE INTERLEUKIN-1 BETA:Biotin
<b>Specificity:</b>	IL-1 BETA
<b>Format:</b>	Biotin
<b>Product Type:</b>	Polyclonal Antibody
<b>Isotype:</b>	Polyclonal IgG
<b>Quantity:</b>	0.25 mg

### 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](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			▪	
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA	▪			1ug/ml - 10ug/ml
Immunoprecipitation			▪	
Western Blotting			▪	

Where this antibody 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 antibody for use in their own system using appropriate negative/positive controls.

<b>Target Species</b>	Bovine
<b>Species Cross Reactivity</b>	Does not react with:Human, Mouse, Rat
<b>Product Form</b>	Purified IgG conjugated to Biotin - lyophilised
<b>Reconstitution</b>	Reconstitute with 1.0ml distilled water Care should be taken during reconstitution as the antibody may appear as a film at the bottom of the vial. Bio-Rad recommend that the vial is gently mixed after reconstitution.
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein G

<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	None present
<b>Approx. Protein Concentrations</b>	IgG concentration 0.25mg/ml after reconstitution
<b>Immunogen</b>	Recombinant bovine IL-1 beta.
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P09428</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">281251</a> IL1B    <a href="#">Related reagents</a></p>
<b>RRID</b>	AB_2124485
<b>Specificity</b>	<p><b>Rabbit anti Bovine Interleukin-1 beta antibody</b> recognizes bovine interleukin-1 beta (IL-1 beta).</p> <p>IL-1 beta is principally expressed by macrophages, and plays an important immunomodulatory role in the bovine immune response.</p> <p>Rabbit anti Bovine Interleukin-1 beta antibody recognizes both native and recombinant bovine IL-1 beta. No detectable cross-reactivity was observed with human, mouse or rat IL-1 beta.</p>
<b>ELISA</b>	This anti interleukin-1 $\beta$ :biotin conjugate may be used in a direct ELISA or as the detection reagent in a sandwich ELISA with recombinant IL-1 $\beta$ ( <a href="#">PBP008</a> ) as the standard and either Rabbit anti Bovine IL-1 $\beta$ ( <a href="#">AHP851Z</a> ) or purified Mouse anti Ovine IL-1 $\beta$ ( <a href="#">MCA1658</a> ) as the capture reagents.
<b>References</b>	<ol style="list-style-type: none"> <li>1. Wenz, J.R. <i>et al.</i> (2010) Factors associated with concentrations of select cytokine and acute phase proteins in dairy cows with naturally occurring clinical mastitis. <a href="#">J Dairy Sci. 93: 2458-70.</a></li> <li>2. Rinaldi, M. <i>et al</i> (2010) A sentinel function for teat tissues in dairy cows: dominant innate immune response elements define early response to <i>E. coli</i> mastitis. <a href="#">Funct Integr Genomics. 10: 21-38.</a></li> <li>3. 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. <a href="#">Clin Vaccine Immunol. 17 (11): 1797-809.</a></li> <li>4. 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>. <a href="#">Vet Res. 42: 49.</a></li> <li>5. Harte,C. <i>et al.</i> (2017) Alum Activates the Bovine NLRP3 Inflammasome <a href="#">Frontiers in Immunology. 8 [Epub ahead of print].</a></li> </ol>

**Storage** Prior to reconstitution store at +4°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.

---

**Guarantee** 12 months from date of despatch

---

**Health And Safety Information** Material Safety Datasheet documentation #10162 available at:  
<https://www.bio-rad-antibodies.com/SDS/AHP851B>  
10162

---

**Regulatory** For research purposes only

---

## Related Products

### Recommended Useful Reagents

[RABBIT ANTI BOVINE INTERLEUKIN-1 BETA:Preservative Free \(AHP851Z\)](#)

<b>North &amp; South America</b>	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: <a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a>	<b>Worldwide</b>	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: <a href="mailto:antibody_sales_uk@bio-rad.com">antibody_sales_uk@bio-rad.com</a>	<b>Europe</b>	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a>
----------------------------------	---	------------------	---	---------------	---

To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://www.bio-rad-antibodies.com/datasheets)  
'M364333:200529'

**Printed on 18 Jan 2024**

---

© 2024 Bio-Rad Laboratories Inc | [Legal](#) | [Imprint](#)