



Datasheet: AHP851B

BATCH NUMBER 163254

Description:	RABBIT ANTI BOVINE INTERLEUKIN-1 BETA:Biotin
Specificity:	IL-1 BETA
Format:	Biotin
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	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.

	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.

Target Species	Bovine
Species Cross Reactivity	Does not react with:Human, Mouse, Rat
Product Form	Purified IgG conjugated to Biotin - lyophilized
Reconstitution	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.
Preparation	Purified IgG prepared by affinity chromatography on Protein G

Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	None present
Approx. Protein Concentrations	IgG concentration 0.25mg/ml after reconstitution
Immunogen	Recombinant bovine IL-1 beta.
External Database Links	<p>UniProt: P09428 Related reagents</p> <p>Entrez Gene: 281251 IL1B Related reagents</p>
RRID	AB_2124485
Specificity	<p>Rabbit anti Bovine Interleukin-1 beta antibody 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>
ELISA	This anti interleukin-1 β :biotin conjugate may be used in a direct ELISA or as the detection reagent in a sandwich ELISA with recombinant IL-1 β (PBP008) as the standard and either Rabbit anti Bovine IL-1 β (AHP851Z) or purified Mouse anti Ovine IL-1 β (MCA1658) as the capture reagents.
References	<ol style="list-style-type: none"> 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. J Dairy Sci. 93: 2458-70. 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. Funct Integr Genomics. 10: 21-38. 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. Clin Vaccine Immunol. 17 (11): 1797-809. 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>. Vet Res. 42: 49. 5. Harte,C. <i>et al.</i> (2017) Alum Activates the Bovine NLRP3 Inflammasome Frontiers in Immunology. 8 [Epub ahead of print].

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 #10294 available at:
<https://www.bio-rad-antibodies.com/SDS/AHP851B>
10294

Regulatory For research purposes only

Related Products

Recommended Useful Reagents

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

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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)
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