

## Datasheet: AHP423

**BATCH NUMBER 071212**

<b>Description:</b>	RABBIT ANTI SHEEP INTERLEUKIN-1 BETA
<b>Specificity:</b>	IL-1 BETA
<b>Format:</b>	Serum
<b>Product Type:</b>	Polyclonal Antibody
<b>Isotype:</b>	Polyclonal IgG
<b>Quantity:</b>	0.1 ml

### 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	▪			1/500
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

Sheep

#### Species Cross Reactivity

Reacts with: Bovine

Based on sequence similarity, is expected to react with: Goat

**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

Serum - liquid

#### Antiserum Preparation

Antisera to ovine IL-1 beta were raised by repeated immunisation of rabbits with highly purified antigen.

<b>Preservative Stabilisers</b>	0.1% Sodium Azide (NaN <sub>3</sub> )
<b>Immunogen</b>	Recombinant IL-1 beta.
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P21621</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">443539</a> IL-1B    <a href="#">Related reagents</a></p>
<b>Specificity</b>	<p><b>Rabbit anti Sheep interleukin 1β antibody</b> recognizes ovine interleukin-1 beta (IL-1 beta). No cross-reactivity is seen with ovine IL-6, IL-8, MCP-1 or TNF alpha.</p> <p>Rabbit anti Sheep interleukin 1β antibody neutralizes the bioactivity of ovine IL-1 beta. Removal of sodium azide is recommended prior to use in functional assays.</p>
<b>References</b>	<ol style="list-style-type: none"> <li>1. Rothel, J.S. <i>et al.</i> (1997) Analysis of ovine IL-1 beta production <i>in vivo</i> and <i>in vitro</i> by enzyme immunoassay and immunohistochemistry. <a href="#">Vet. Immunol. Immunopathol. 57: 267-278.</a></li> <li>2. Bannerman, D.D. <i>et al.</i> (2004) <i>Escherichia coli</i> and <i>Staphylococcus aureus</i> elicit differential innate immune responses following intramammary infection. <a href="#">Clin Diagn Lab Immunol. 11: 463-72.</a></li> <li>3. Dernfalk, J. <i>et al.</i> (2007) The xMAP technique can be used for detection of the inflammatory cytokines IL-1beta, IL-6 and TNF-alpha in bovine samples. <a href="#">Vet Immunol Immunopathol. 118: 40-9.</a></li> <li>4. Moyes, K.M. <i>et al.</i> (2009) Identification of potential markers in blood for the development of subclinical and clinical mastitis in dairy cattle at parturition and during early lactation. <a href="#">J Dairy Sci. 92: 5419-28.</a></li> <li>5. Allen, J.S. <i>et al.</i> (2009) Plasmacytoid dendritic cells are proportionally expanded at diagnosis of type 1 diabetes and enhance islet autoantigen presentation to T-cells through immune complex capture. <a href="#">Diabetes. 2009 Jan;58(1):138-45.</a></li> <li>6. Vordermeier, M. <i>et al.</i> (2012) Cytokine responses of Holstein and Sahiwal zebu derived monocytes after mycobacterial infection. <a href="#">Trop Anim Health Prod. 44: 651-5.</a></li> <li>7. Xu, A. <i>et al.</i> (2015) The Ovine Fetal and Placental Inflammatory Response to Umbilical Cord Occlusions With Worsening Acidosis. <a href="#">Reprod Sci. pii: 1933719115580994.</a></li> <li>8. Bagu, E.T. <i>et al.</i> (2010) Post-natal changes in testicular concentrations of interleukin-1 alpha and beta and interleukin-6 during sexual maturation in bulls. <a href="#">Reprod Domest Anim. 45 (2): 336-41.</a></li> <li>9. Atik, A. <i>et al.</i> (2012) Long-term pulmonary effects of intrauterine exposure to endotoxin following preterm birth in sheep. <a href="#">Reprod Sci. 19 (12): 1352-64.</a></li> <li>10. Silvestre, F.T. <i>et al.</i> (2011) Effects of differential supplementation of fatty acids during the peripartum and breeding periods of Holstein cows: II. Neutrophil fatty acids and function, and acute phase proteins. <a href="#">J Dairy Sci. 94 (5): 2285-301.</a></li> </ol>
<b>Storage</b>	Store at +4°C or at -20°C if preferred.

This product should be stored undiluted.

Storage in frost free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

---

<b>Guarantee</b>	18 months from date of despatch.
------------------	----------------------------------

---

<b>Health And Safety Information</b>	Material Safety Datasheet documentation available at: <a href="https://www.bio-rad-antibodies.com/SDS/AHP423">https://www.bio-rad-antibodies.com/SDS/AHP423</a> Material Safety Datasheet Documentation #10342 available at: <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10342.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10342.pdf</a>
--------------------------------------	---

---

<b>Regulatory</b>	For research purposes only
-------------------	----------------------------

---

## Related Products

### Recommended Secondary Antibodies

Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)

Sheep Anti Rabbit IgG (STAR35...) [RPE](#)

Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)

### Recommended Useful Reagents

[TidyBlot WESTERN BLOT DETECTION REAGENT:HRP \(STAR209P\)](#)

<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://bio-rad-antibodies.com/datasheets)  
'M279405:160115'

**Printed on 15 Mar 2024**