

Datasheet: AHP423 BATCH NUMBER 167803

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

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

Preservative Stabilisers	
Immunogen	

<0.1% Sodium Azide (NaN₃)

Recombinant IL-1 beta.

External Database Links

UniProt:

P21621 Related reagents

Entrez Gene:

443539 IL-1B Related reagents

RRID

AB 322127

Specificity

Rabbit anti Sheep interleukin 1β **antibody** recognizes ovine interleukin-1 beta (IL-1 beta). No cross-reactivity is seen with ovine IL-6, IL-8, MCP-1 or TNF alpha.

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.

References

- 1. Rothel, J.S. *et al.* (1997) Analysis of ovine IL-1 beta production *in vivo* and *in vitro* by enzyme immunoassay and immunohistochemistry. <u>Vet Immunol Immunopathol. 57 (3-4):</u> 267-78.
- 2. Bannerman, D.D. *et al.* (2004) *Escherichia coli* and *Staphylococcus aureus* elicit differential innate immune responses following intramammary infection. <u>Clin Diagn Lab Immunol.</u> 11: 463-72.
- 3. Dernfalk, J. *et al.* (2007) The xMAP technique can be used for detection of the inflammatory cytokines IL-1beta, IL-6 and TNF-alpha in bovine samples. <u>Vet Immunol Immunopathol</u>. 118: 40-9.
- 4. Bagu, E.T. *et al.* (2010) Post-natal changes in testicular concentrations of interleukin-1 alpha and beta and interleukin-6 during sexual maturation in bulls. <u>Reprod Domest Anim.</u> 45 (2): 336-41.
- 5. Silvestre, F.T. *et al.* (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. <u>J Dairy Sci. 94 (5): 2285-301.</u>
- 6. Atik, A. *et al.* (2012) Long-term pulmonary effects of intrauterine exposure to endotoxin following preterm birth in sheep. Reprod Sci. 19 (12): 1352-64.
- 7. Vordermeier, M. *et al.* (2012) Cytokine responses of Holstein and Sahiwal zebu derived monocytes after mycobacterial infection. <u>Trop Anim Health Prod. 44: 651-5.</u>
- 8. Doull, L. *et al.* (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.
- 9. Xu, A. *et al.* (2015) The Ovine Fetal and Placental Inflammatory Response to Umbilical Cord Occlusions With Worsening Acidosis. Reprod Sci. 22 (11): 1409-20.
- 10. Cortes, M. *et al.* (2017) RNAseq profiling of primary microglia and astrocyte cultures in near-term ovine fetus: A glial in vivo-in vitro multi-hit paradigm in large mammalian brain. <u>J Neurosci Methods</u>. 276: 23-32.
- 11. Cao, M. *et al.* (2019) α7 Nicotinic Acetylcholine Receptor Signaling Modulates Ovine Fetal Brain Astrocytes Transcriptome in Response to Endotoxin. Front Immunol. 10: 1063.

12. Damiano, S. *et al.* (2022) Red orange and lemon extract preserve from oxidative stress, DNA damage and inflammatory status in lambs <u>It J Anim Sci. 21 (1): 934-42.</u>
13. Ciliberti, M.G. *et al.* (2024) Role of hazelnut skin supplementation on plasma antioxidant status and cytokine profile in growing lambs. <u>Front Vet Sci. 11: 1340141.</u>

Storage

This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

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)

North & South Tel: +1 800 265 7376

America Fax: +1 919 878 3751

Worldwide

Tel: +44 (0)1865 852 700

Europe

Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50

Email: antibody_sales_us@bio-rad.com

Fax: +44 (0)1865 852 739
Email: antibody_sales_uk@bio-rad.com

Email: antibody_sales_de@bio-rad.com

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M418570:230427'

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