

Datasheet: AHP423

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	Reacts with: Bovine	
Reactivity	Based on sequence similarity, is expected to react with:Goat	
	N.B. Antibody reactivity and working conditions may vary betwee reactivity is derived from testing within our laboratories, peer-repersonal communications from the originators. Please refer to further information.	viewed publications or
Product Form	Serum - liquid	
Antiserum Preparation	Antisera to ovine IL-1 beta were raised by repeated immunisati purified antigen.	on of rabbits with highly
Preservative	<0.1% Sodium Azide (NaN ₃)	

Stabilisers

Immunogen	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</u> Immunol. 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. 276: 23-32.</u>
- 11. Cao, M. *et al.* (2019) α7 Nicotinic Acetylcholine Receptor Signaling Modulates Ovine Fetal Brain Astrocytes Transcriptome in Response to Endotoxin. <u>Front Immunol. 10: 1063.</u>
- 12. Damiano, S. et al. (2022) Red orange and lemon extract preserve from oxidative

stress, DNA damage and inflammatory status in lambs It J Anim Sci. 21 (1): 934-42. 13. Ciliberti, M.G. et al. (2024) Role of hazelnut skin supplementation on plasma antioxidant status and cytokine profile in growing lambs. Front Vet Sci. 11: 1340141.

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.

Guarantee 12 months from date of despatch **Health And Safety** Material Safety Datasheet documentation #10081 available at: Information https://www.bio-rad-antibodies.com/SDS/AHP423 10081 Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Rabbit IgG (H/L) (STAR124...) HRP Sheep Anti Rabbit IgG (STAR35...)

Email: antibody_sales_us@bio-rad.com

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

Recommended Useful Reagents

TidyBlot WESTERN BLOT DETECTION REAGENT:HRP (STAR209P)

America

North & South Tel: +1 800 265 7376 Fax: +1 919 878 3751 Worldwide

Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739

Email: antibody_sales_uk@bio-rad.com

Europe

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

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 'M437986:250320'

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