

## Datasheet: AHP425

<b>Description:</b>	RABBIT ANTI SHEEP INTERLEUKIN-8
<b>Specificity:</b>	IL-8
<b>Other names:</b>	CXCL8
<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

Based on sequence similarity, is expected to react with: Bovine, 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-8 were raised by repeated immunisation of rabbits with highly purified antigen.

### Preservative

<0.1% Sodium Azide (NaN<sub>3</sub>)

## Stabilisers

---

**Immunogen** Recombinant ovine IL-8.

---

## External Database Links

**UniProt:**

[P36925](#)    [Related reagents](#)

**Entrez Gene:**

[443418](#) IL8    [Related reagents](#)

---

**Synonyms** CXCL8

---

**RRID** AB\_322153

---

## Specificity

**Rabbit anti Sheep Interleukin-8 antibody** recognises ovine interleukin-8, also known as IL-8, C-X-C motif chemokine 8 or Chemokine (C-X-C motif) ligand 8. Interleukin-8 is a 79 amino acid ~11kDa secreted cytokine chemotactic for neutrophils, basophils and T-cells but not monocytes.

No cross-reactivity is seen with ovine IL-1 beta, IL-6, MCP or TNF alpha.

---

## ELISA

The antibody may be used in a sandwich ELISA as a detection reagent for ovine IL-8, in combination with [MCA1660](#) as capture antibody.

N.B. It is recommended that AHP425 and any detection antibody are diluted in 10% normal mouse serum prior to use in ELISA.

---

## References

1. Caswell, J.L. *et al.* (1998) Expression of the neutrophil chemoattractant interleukin-8 in the lesions of bovine pneumonic pasteurellosis. [Vet Pathol. 35 \(2\): 124-31.](#)
2. Shashikant, B.N. *et al.* (2005) Dose response to rhCC10-augmented surfactant therapy in a lamb model of infant respiratory distress syndrome: physiological, inflammatory, and kinetic profiles. [J Appl Physiol. 99: 2204-11.](#)
3. Herndon, C.N. *et al.* (2010) Differential expression of interleukin-8 by polymorphonuclear leukocytes of two closely related species, *Ovis canadensis* and *Ovis aries*, in response to *Mannheimia haemolytica* infection. [Infect Immun. 78: 3578-84.](#)
4. Bonnefont, C.M. *et al.* (2012) Genetic susceptibility to *S. aureus* mastitis in sheep: differential expression of mammary epithelial cells in response to live bacteria or supernatant. [Physiol Genomics. 44 \(7\): 403-16.](#)
5. Stinson LF *et al.* (2014) Effects of cytokine-suppressive anti-inflammatory drugs on inflammatory activation in *ex vivo* human and ovine fetal membranes. [Reproduction. 147 \(3\): 313-20.](#)
6. 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.](#)
7. Cronin, J.G. *et al.* (2015) Enzyme linked immunosorbent assay for quantification of bovine interleukin-8 to study infection and immunity in the female genital tract. [Am J Reprod Immunol. 73 \(4\): 372-82.](#)
8. Tahoun, A. *et al.* (2015) Functional analysis of bovine TLR5 and association with IgA

- responses of cattle following systemic immunisation with H7 flagella. [Vet Res. 46: 9.](#)
9. Santillo, A. *et al.* (2022) Feeding tannins to dairy cows in different seasons improves the oxidative status of blood plasma and the antioxidant capacity of cheese. [J Dairy Sci. 105 \(11\): 8609-20.](#)
10. Muñoz-Caro, T. *et al.* (2021) The Role of TLR2 and TLR4 in Recognition and Uptake of the Apicomplexan Parasite *Eimeria bovis* and Their Effects on NET Formation. [Pathogens. 10 \(2\): 118.](#)

---

**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 Information** Material Safety Datasheet documentation #20362 available at: <https://www.bio-rad-antibodies.com/SDS/AHP425>  
20362

---

**Regulatory** 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](#)

**North & South** Tel: +1 800 265 7376

**America** Fax: +1 919 878 3751

Email: [antibody\\_sales\\_us@bio-rad.com](mailto:antibody_sales_us@bio-rad.com)

**Worldwide**

Tel: +44 (0)1865 852 700

Fax: +44 (0)1865 852 739

Email: [antibody\\_sales\\_uk@bio-rad.com](mailto: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](mailto: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](https://www.bio-rad-antibodies.com/datasheets)

'M429070:240315'

Printed on 15 Mar 2024

---

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