

## Datasheet: AHP424

<b>Description:</b>	RABBIT ANTI SHEEP INTERLEUKIN-6
<b>Specificity:</b>	IL-6
<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.

<b>Target Species</b>	Sheep
<b>Species Cross Reactivity</b>	<p>Reacts with: Bovine</p> <p><b>N.B.</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.</p>
<b>Product Form</b>	Serum - liquid (diluted)
<b>Antiserum Preparation</b>	Antisera to ovine IL-6 were raised by repeated immunisation of rabbits with highly purified antigen.
<b>Buffer Solution</b>	Phosphate buffered saline

<b>Preservative Stabilisers</b>	<0.1% Sodium Azide (NaN <sub>3</sub> )
<b>Immunogen</b>	Recombinant IL-6.
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P29455</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">443406</a>    IL6    <a href="#">Related reagents</a></p>
<b>RRID</b>	AB_322150
<b>Specificity</b>	<b>Rabbit anti Ovine interleukin-6 antibody</b> recognizes ovine interleukin-6 (IL-6). No cross-reactivity is seen with ovine IL-1 beta, IL-8, MCP or TNF alpha.
<b>ELISA</b>	The antibody may be used in a sandwich ELISA as a detection reagent for ovine IL-6, in combination with <a href="#">MCA1659</a> as a capture antibody.
<b>References</b>	<ol style="list-style-type: none"> <li>Stephens, S. <i>et al.</i> (2003) Differences in cytokine synthesis by the subpopulations of dendritic cells from afferent lymph. <a href="#">Immunology. 120: 48-57.</a></li> <li>Herath, S. <i>et al.</i> (2009) Expression of genes associated with immunity in the endometrium of cattle with disparate postpartum uterine disease and fertility. <a href="#">Reprod Biol Endocrinol. 7: 55.</a></li> <li>Wang, Z. <i>et al.</i> (2008) Acute hypercapnia improves indices of tissue oxygenation more than dobutamine in septic shock. <a href="#">Am J Respir Crit Care Med. 177: 178-83.</a></li> <li>Su, F. <i>et al.</i> (2007) Beneficial effects of ethyl pyruvate in septic shock from peritonitis. <a href="#">Arch Surg.142: 166-71.</a></li> <li>Karisanan, K. <i>et al.</i> (2015) Interleukin-1 Receptor Antagonist Protects against Lipopolysaccharide Induced Diaphragm Weakness in Preterm Lambs. <a href="#">PLoS One. 10 (4): e0124390.</a></li> <li>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. 22 (11): 1409-20.</a></li> <li>Dooley, L.M. <i>et al.</i> (2015) Effect of mesenchymal precursor cells on the systemic inflammatory response and endothelial dysfunction in an ovine model of collagen-induced arthritis. <a href="#">PLoS One. 10 (5): e0124144.</a></li> <li>Herry, C.L. <i>et al.</i> (2016) Temporal Patterns in Sheep Fetal Heart Rate Variability Correlate to Systemic Cytokine Inflammatory Response: A Methodological Exploration of Monitoring Potential Using Complex Signals Bioinformatics. <a href="#">PLoS One. 11 (4): e0153515.</a></li> <li>Westover, A. <i>et al.</i> (2017) Effect of Human Amnion Epithelial Cells on the Acute Inflammatory Response in Fetal Sheep. <a href="#">Front Physiol. 8: 871.</a></li> <li>Castel, A. <i>et al.</i> (2021) Recording and manipulation of vagus nerve electrical activity in chronically instrumented unanesthetized near term fetal sheep. <a href="#">J Neurosci Methods. 360: 109257.</a></li> <li>Damiano, S. <i>et al.</i> (2022) Red orange and lemon extract preserve from oxidative stress, DNA damage and inflammatory status in lambs <a href="#">It J Anim Sci. 21 (1): 934-42.</a></li> <li>Cao, M. <i>et al.</i> (2024) The Vagus Nerve Regulates Immunometabolic Homeostasis in</li> </ol>

the Ovine Fetus near Term: The Impact on Terminal Ileum. [Biology \(Basel\).13 \(1\): 38.](#)  
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.](#)

<b>Storage</b>	<p>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.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.</p>
<b>Guarantee</b>	12 months from date of despatch
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10483 available at: <a href="https://www.bio-rad-antibodies.com/SDS/AHP424">https://www.bio-rad-antibodies.com/SDS/AHP424</a> 10483
<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 \(STAR209P\)](#)

**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://bio-rad-antibodies.com/datasheets)

'M429069:240315'

**Printed on 15 Mar 2024**