Datasheet: MCA1659 BATCH NUMBER 160994

Description:	MOUSE ANTI SHEEP INTERLEUKIN-6
Specificity:	IL-6
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	4B6
Isotype:	lgG1
Quantity:	0.25 mg

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	originato	rs. Pleas	e refer to references in	dicated for further		
	information. For general	protocol r	ecommer	ndations, please visit <u>w</u>	ww.bio-		
	rad-antibodies.com/protocols.						
		Yes	No	Not Determined	Suggested Dilution		
	Flow Cytometry (1)	-					
	Immunohistology - Frozen						
	Immunohistology - Paraffin						
	ELISA	-			5ug/ml (as a coating antibody)		
	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.						
	(1) Membrane permeabilization is required for this application. Bio-Rad recommend						
	the use of Leucoperm [™] (Product Code <u>BUF09</u>) for this purpose.						
Target Species	Sheep						
Species Cross	Reacts with: Monkey						
Reactivity	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	Purified IgG - liquid						

	Purified IgG prepared by affinity chromatography on Protein G
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	<0.1% Sodium Azide (NaN ₃)
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	Recombinant ovine IL-6.
External Database Links	UniProt:P29455Related reagents
	Entrez Gene: <u>443406</u> IL6 <u>Related reagents</u>
RRID	AB_322149
Specificity	Mouse anti Sheep Interleukin-6 antibody, clone 4B6 recognizes ovine interleukin-6 (IL-6) and has also been reported to recognise recombinant human IL-6 and bovine IL-6 transfected cells. Mouse anti Sheep Interleukin-6 antibody, clone 4B6 does not cross react with ovine IL-1 beta, IL-8, MCP-1 or TNF alpha.
Elow Cutomotru	
Flow Cytometry	Use 1001 of the suggested working dilution to label 1x10° cells in 10001.
ELISA	MCA1659 may also be used in combination with <u>AHP424</u> in a sandwich ELISA assays for ovine IL-6.

<u>e0124390.</u>

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	Cord Occlusions With Worsening Acidosis. Reprod Sci. 22 (11): 1409-20.
	9. 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. PLoS One. 10 (5): e0124144.
	10. 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
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	11 Ciliberti M G <i>et al.</i> (2017) Peripheral blood mononuclear cell proliferation and
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	Sci 100 (1): 750-756
	12 Westover A et al. (2017) Effect of Human Amnion Enithelial Cells on the Acute
	Inflormatory Doppono in Estal Shoon, Front Dhysiol, 9: 971
	12 Costol A st of (2021) Departing and manipulation of varue name electrical activity in
	13. Castel, A. <i>et al.</i> (2021) Recording and manipulation of vagus herve electrical activity in
	chronically instrumented unanestnetized near term letal sheep. <u>J Neurosci Methods. 360:</u>
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	14. Clilberti, M.G. et al. (2022) Green extraction of bloactive compounds from wine lees
	and their bio-responses on immune modulation using <i>in vitro</i> . sheep model. <u>J Dairy Sci.</u>
	Mar 17 [Epub ahead of print].
	15. Cao, M. <i>et al.</i> (2022) The vagus nerve regulates immunometabolic homeostasis in the
	ovine fetus near term: impact on terminal ileum asXiv 2203.14967
	16. 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>
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 #10040 available at:
Information	https://www.bio-rad-antibodies.com/SDS/MCA1659
	10040
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Rabbit Anti Mouse IgG (STAR12)	<u>RPE</u>
Goat Anti Mouse IgG (H/L) (STAR117)	<u>FITC</u>
Rabbit Anti Mouse IgG (STAR13)	<u>HRP</u>
Rabbit Anti Mouse IgG (STAR9)	<u>FITC</u>

MOUSE IgG1 NEGATIVE CONTROL (MCA928)

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America	Fax: +1 919 878 3751		Fax: +44 (0)1865 852 739		Fax: +49 (0) 89 8090 95 50
	Email: antibody_sales_us@bio-ra	d.com	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 'M389318:210806'

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