

Datasheet: MCA1658 BATCH NUMBER 166426

Description:	MOUSE ANTI SHEEP INTERLEUKIN-1 BETA		
Specificity:	IL-1 BETA		
Format:	Purified		
Product Type:	Monoclonal Antibody		
Clone:	1D4		
Isotype:	IgG1		
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 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 (1)	•			1/10
Immunohistology - Frozen	•			
Immunohistology - Paraffin				
ELISA				
Immunoprecipitation			•	
Western Blotting	•			

Where this product 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 product for use in their own system using appropriate negative/positive controls.

(1) Membrane permeabilization is required for this application. The use of Leucoperm (Product Code <u>BUF09</u>) is recommended for this purpose.

Target Species	Sheep			
Species Cross Reactivity	Reacts with: Goat, Bovine, Horse 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			

Preparation	Antibody purified from tissue culture supernatant		
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-1 Beta		
External Database Links	UniProt: P21621 Related reagents Entrez Gene: 443539 IL-1B Related reagents		
RRID	AB_322126		
Specificity	Mouse anti Sheep Interleukin-1 beta antibody, clone 1D4 recognizes ovine interleukin-1 beta, and shows no cross-reactivity with ovine IL-6, IL-8, TNF alpha or MCP-1. Mouse anti Sheep Interleukin-1 beta antibody, clone 1D4 demonstrates partial neutralizing activity of ovine IL-1 beta.		
Flow Cytometry	Use 10µl of the suggested working dilution to label 1x10 ⁶ cells in 100µl		
ELISA	Mouse anti interleukin-1 beta antibody, clone 1D4 may be used as a capture antibody in a bovine IL-1 beta sandwich ELISA together with Rabbit anti Bovine interleukin-1 β antibody (AHP851B) as the detection reagent for evaluation of IL-1 β levels in bovine samples together with recombinant Bovine interleukin-1 β (PBP008) used as standards. Alternatively, Mouse anti Interleukin-1 beta antibody, clone 1D4 can be used as a capture reagent together with Rabbit anti Ovine interleukin-1 β antibody (AHP423) as a detection reagent for the evaluation of IL-1 β levels in ovine, bovine or caprine samples, again utilizing recombinant bovine IL-1 δ beta (PBP008) as an internal standard.		
References	 Martoriati, A. & Gérard, N. (2003) Interleukin-1 (IL-1) system gene expression in granulosa cells: kinetics during terminal preovulatory follicle maturation in the mare. Reprod Biol Endocrinol. 1: 42-51. Bannerman, D.D. et al. (2004) Escherichia coli and Staphylococcus aureus elicit differential innate immune responses following intramammary infection. Clin Diagn Lab Immunol. 11: 463-72. Bannerman, D.D. et al. (2004) Characterization of the bovine innate immune response to intramammary infection with Klebsiella pneumoniae. J Dairy Sci. 87 (8): 2420-32. Leite, F. et al. (2005) Incubation of bovine PMNs with conditioned medium from BHV-1 		

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Further Reading	1. Rothel, J.S. <i>et al.</i> (1997) Analysis of ovine IL-1 beta production <i>in vivo</i> and <i>in vitro</i> by enzyme immunoassay and immunohistochemistry. <u>Vet Immunol Immunopathol. 57 (3-4): 267-78.</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 Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/MCA1658 10040	
Regulatory	For research purposes only	

Related Products

Recommended Secondary Antibodies

Rabbit Anti Mouse IgG (STAR12...) **RPE** Goat Anti Mouse IgG (H/L) (STAR117...) FITC Rabbit Anti Mouse IgG (STAR9...) **FITC** Rabbit Anti Mouse IgG (STAR13...) **HRP**

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL (MCA928)

North & South Tel: +1 800 265 7376 America

Worldwide Fax: +1 919 878 3751

Email: antibody_sales_us@bio-rad.com

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

Email: antibody_sales_uk@bio-rad.com

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 'M421731:230714'

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