

Datasheet: MCA1924

Description:	MOUSE ANTI SHEEP GM-CSF
Specificity:	GM-CSF
Other names:	GRANULOCYTE MACROPHAGE COLONY STIMULATING FACTOR
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	3C2
lsotype:	lgG1
Quantity:	0.5 mg

Product Details

Applications	This product has been reported to work in the following applications. This inform derived from testing within our laboratories, peer-reviewed publications or person communications from the originators. Please refer to references indicated for fur							
	information. For general p	information. For general protocol recommendations, please visit www.bio-						
	rad-antibodies.com/proto	<u>cols</u> .						
		Yes	No	Not Determined	Suggested Dilution			
	Flow Cytometry							
	Immunohistology - Frozen			-				
	Immunohistology - Paraffin			•				
	ELISA	-						
	Immunoprecipitation			•				
	Western Blotting	•						
	Where this product has n	ot been t	ested for	use in a particular tech	inique this does not			
	necessarily exclude its us	se in such	n procedu	res. Suggested workin	g dilutions are given as			
	a guide only. It is recomm system using appropriate			•	or use in their own			
Target Species	Sheep							
Species Cross Reactivity	Reacts with: Bovine N.B. Antibody reactivity a reactivity is derived from personal communications further information.	testing w	ithin our la	aboratories, peer-revie	wed publications or			
Product Form	Purified IgG - liquid							
Preparation	Purified IgG prepared by supernatant	affinity cł	nromatog	raphy on Protein G fror	n tissue culture			

Buffer Solution	Phosphate buffered saline				
Preservative Stabilisers	0.09% sodium azide (NaN ₃)				
Carrier Free	Yes				
Approx. Protein Concentrations	IgG concentration 1.0mg/ml				
Immunogen	CHO expressed recombinant ovine GM-CSF.				
External Database Links	UniProt: <u>P28773</u> <u>Related reagents</u> Entrez Gene: <u>443400</u> CSF2 <u>Related reagents</u>				
RRID	AB_323204				
Fusion Partners	Spleen cells from immunised Balb/c mice were fused with cells of the NSO myeloma cell line.				
Specificity	 Mouse anti Sheep GM-CSF, clone 3C2 recognizes both recombinant and native ovine Granulocyte-macrophage colony-stimulating factor, also known GM-CSF or CSF, a 16.3kDa cytokine responsible for the stimulation and growth of cells from granulocyte, macrophage, eosinophil and erythrocyte hematopoietic precursor cell linages. Mouse anti Sheep GM-CSF, clone 3C2 has is of particular interest as it has been shown to reconize GM-CSF in cattle while other clones such as 8D8 do not crosss react with cattle 				
	Mouse anti Sheep GM-CSF, clone 3C2 has been reported to neutralise the activity of both recombinant ovine and native GM-CSF.				
	Removal of sodium azide is recommended prior to use in functional assays.				
ELISA	Mouse anti Sheep GM-CSF antibody, clone 3C2 (MCA1924 can be used in a sandwich ELISA as a capture antibody together with Mouse anti Sheep GM-CSF antibody, clone 8D8 (<u>MCA1923</u>) as the detection antibody. Conjugation of the detection antibody with <u>LYNX Rapid or Rapid Plus Kits</u> is recommended.				
References	 John, H.A. <i>et al.</i> (1994) Generation of an ovine bone marrow-derived myelomonocyte-like cell line by retroviral-mediated transformation. Immunological characterization and the effect of cytokines and lipopolysaccharides. <u>J Leukoc Biol. 55:</u> <u>785-92.</u> Haig, D.M. <i>et al.</i> (1995) Haemopoietic cell responses in the blood and bone marrow of sheep infected with the abomasal nematode <i>Telodorsagia circumcincta</i>. <u>J Comp Pathol</u>. 				

	 112: 151-64. 3. Entrican, G. <i>et al.</i> (1996) Development of a sandwich ELISA for ovine granulocyte/macrophage colony-stimulating factor. <u>Vet Immunol Immunopathol. 50 (1-2): 105-15.</u> 4. Deane, D. <i>et al.</i> (2000) Orf virus encodes a novel secreted protein inhibitor of granulocyte-macrophage colony-stimulating factor and interleukin-2. <u>J Virol. 74: 1313-20.</u> 5. Kennedy, H.E. <i>et al.</i> (2002) Modulation of immune responses to Mycobacterium bovis in cattle depleted of WC1(+) gamma delta T cells. <u>Infect Immun. 70: 1488-500.</u> 6. McInnes, C.J. <i>et al.</i> (2005) Glycosylation, disulfide bond formation, and the presence of a WSXWS-like motif in the orf virus GIF protein are critical for maintaining the integrity of Binding to ovine granulocyte-macrophage colony-stimulating factor and interleukin-2. J <u>Virol. 79: 11205-13.</u> 7. Scott, J.L. <i>et al.</i> (2007) Granulocyte-macrophage colony stimulating factor and interleukin-8 in the reproductive tract of ewes following oestrus and mating. <u>Reprod Fertil Dev. 19: 585-93.</u> 8. Foulon, E. and Foucras, G. (2008) Two populations of ovine bone marrow-derived dendritic cells can be generated with recombinant GM-CSF and separated on CD11b expression. <u>J Immunol Methods. 339: 1-10.</u> 9. Scott, J.L. (2009) Spermatozoa and seminal plasma induce a greater inflammatory response in the ovine uterus at oestrus than dioestrus. <u>Reprod Fertil Dev. 21: 817-26.</u> 10. Schnabel, C.L. <i>et al.</i> (2013) Evaluation of the reactivity of commercially available monoclonal antibodies with equine cytokines. <u>Vet Immunol Immunopathol. 156 (1-2): 1-19.</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
Acknowledgements	This reagent was evaluated at the Moredun Research Institute and The Roslin Institute at the University of Edinburgh as part of 'The route to identification of immunological correlates of protection in ruminants' Industrial Partnership Award funded by BBSRC (grant numbers BB/I019863/1; BB/I020519/1) with the support of Bio-Rad.
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/MCA1924 10040
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Rabbit Anti Mouse IgG (STAR12...) RPE

Goat Anti Mouse IgG IgA IgM (STAR87) <u>HRP</u>						
Goat Anti Mouse IgG (STAR76)			PE			
Goat Anti Mouse IgG (STAR70)) <u>F</u>	FITC			
Rabbit Anti Mouse IgG (STAR13)			HRP			
Goat Anti Mouse IgG (Fc) (STAR120) <u>FI</u>			FITC, HRP			
Rabbit Anti Mouse IgG (STAR9)			FITC			
Goat Anti Mouse IgG (STAR77) <u>HRP</u>						
Goat Anti Mouse IgG (H/L) (STAR117) <u>Alk. Phos.</u> , <u>DyLight®488</u> , <u>DyLight®550</u> ,						
DyLight®650, DyLight®680, DyLight®800,						
		F	ITC, HRP			
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To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M437855:250319'

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