

Datasheet: MCA1923

Description:	MOUSE ANTI SHEEP GM-CSF
Specificity:	GM-CSF
Other names:	GRANULOCYTE MACROPHAGE COLONY STIMULATING FACTOR
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	8D8
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			▪	
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA	▪			5ug/ml
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.

Target Species

Sheep

Species Cross Reactivity

Does not react with:Bovine

Reacts weakly with:Horse, 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

Purified IgG - liquid

Preparation

Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant

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	<p>UniProt: P28773 Related reagents</p> <p>Entrez Gene: 443400 CSF2 Related reagents</p>
RRID	AB_10614177
Fusion Partners	Spleen cells from immunized Balb/c mice were fused with cells of the NS0 myeloma cell line.
Specificity	<p>Mouse anti Sheep GM-CSF antibody, clone 8D8 recognizes both recombinant and native ovine granulocyte / macrophage colony-stimulating factor (GM-CSF), also known as Colony stimulating factor (CSF).</p> <p>GM-CSF is one of several cytokines that regulate the survival, growth and differentiation of haemopoietic cells. GM-CSF is secreted from a range of cells including macrophages, T-cells, endothelial cells and fibroblasts in response to antigen, LPS or mitogen stimulation.</p> <p>Mouse anti Sheep GM-CSF antibody, clone 8D8 may be used as a capture antibody in ELISA assays with Mouse anti Sheep GM-CSF antibody, clone 3C2 (MCA1924) as a detection reagent for the evaluation of ovine GM-CSF.</p> <p>Mouse anti Sheep GM-CSF antibody, clone 8D8 has been reported to neutralize the activity of both recombinant and native ovine GM-CSF (Entrican <i>et al.</i> 1996). Removal of the preservative is recommended prior to use in functional assays.</p>
References	<ol style="list-style-type: none"> 1. 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. J Leukoc Biol. 55: 785-92. 2. Entrican, G. <i>et al.</i> (1996) Development of a sandwich ELISA for ovine granulocyte/macrophage colony-stimulating factor. Vet Immunol Immunopathol. 50 (1-2): 105-15. 3. Deane, D. <i>et al.</i> (2000) Orf virus encodes a novel secreted protein inhibitor of

- granulocyte-macrophage colony-stimulating factor and interleukin-2. [J Virol. 74: 1313-20.](#)
4. Pedersen, L.G. *et al.* (2002) Identification of monoclonal antibodies that cross-react with cytokines from different animal species. [Vet Immunol Immunopathol. 88 \(3-4\): 111-22.](#)
5. Scott, J.L. *et al.* (2007) Granulocyte-macrophage colony stimulating factor and interleukin-8 in the reproductive tract of ewes following oestrus and mating. [Reprod Fertil Dev. 19: 585-93.](#)
6. Schnabel, C.L. *et al.* (2013) Evaluation of the reactivity of commercially available monoclonal antibodies with equine cytokines. [Vet Immunol Immunopathol. 156 \(1-2\): 1-19.](#)

Storage	<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>
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	<p>Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/MCA1923</p> <p>10040</p>
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Rabbit Anti Mouse IgG (STAR11...) [Biotin](#)

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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](https://www.bio-rad-antibodies.com/datasheets)

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