

## Datasheet: MCA1923

**BATCH NUMBER 1609**

<b>Description:</b>	MOUSE ANTI SHEEP GM-CSF
<b>Specificity:</b>	GM-CSF
<b>Other names:</b>	GRANULOCYTE MACROPHAGE COLONY STIMULATING FACTOR
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	8D8
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	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](http://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 antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. 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>	Does not react with:Bovine Reacts weakly with:Horse, Goat <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.
<b>Product Form</b>	Purified IgG - liquid
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant

<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.09% Sodium Azide
<b>Carrier Free</b>	Yes
<b>Approx. Protein Concentrations</b>	IgG concentration 1.0mg/ml
<b>Immunogen</b>	CHO expressed recombinant ovine GM-CSF.
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P28773</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">443400</a>    CSF2    <a href="#">Related reagents</a></p>
<b>RRID</b>	AB_10614177
<b>Fusion Partners</b>	Spleen cells from immunised Balb/c mice were fused with cells of the NS0 myeloma cell line.
<b>Specificity</b>	<p><b>Mouse anti Sheep GM-CSF antibody, clone 8D8</b> 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 (<a href="#">MCA1924</a>) 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 (<a href="#">Entrican <i>et al.</i> 1996</a>). Removal of the preservative is recommended prior to use in functional assays.</p>
<b>References</b>	<ol style="list-style-type: none"> <li>1. Entrican, G. <i>et al.</i> (1996) Development of a sandwich ELISA for ovine granulocyte/macrophage colony-stimulating factor. <a href="#">Vet Immunol Immunopathol. 50 (1-2): 105-15.</a></li> <li>2. Pedersen, L.G. <i>et al.</i> (2002) Identification of monoclonal antibodies that cross-react with cytokines from different animal species. <a href="#">Vet Immunol Immunopathol. 88 (3-4): 111-22.</a></li> <li>3. 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. <a href="#">Reprod Fertil</a></li> </ol>

[Dev. 19: 585-93.](#)

4. John, H.A. *et al.* (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.](#)

5. Deane, D. *et al.* (2000) Orf virus encodes a novel secreted protein inhibitor of granulocyte-macrophage colony-stimulating factor and interleukin-2. [J Virol. 74: 1313-20.](#)

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.](#)

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**Storage**

Store at +4°C or at -20°C if preferred.

This product should be stored undiluted.

Storage in frost free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

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**Guarantee**

12 months from date of despatch

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**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.

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**Health And Safety Information**

Material Safety Datasheet documentation #10040 available at: <https://www.bio-rad-antibodies.com/SDS/MCA1923>  
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**Regulatory**

For research purposes only

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## Related Products

### Recommended Secondary Antibodies

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

**North & South America**

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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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