

## 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>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>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>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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**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](#)

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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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