

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 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.

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.
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide
Carrier Free	Yes
Approx. Protein Concentrations	IgG concentration 1.0mg/ml

Immunogen	CHO expressed recombinant ovine GM-CSF.
External Database Links	UniProt: P28773 Related reagents Entrez Gene: 443400 CSF2 Related reagents
Fusion Partners	Spleen cells from immunised Balb/c mice were fused with cells of the NS0 myeloma cell line.
Specificity	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). 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. 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. Mouse anti Sheep GM-CSF antibody, clone 8D8 has been reported to neutralize the activity of both recombinant and native ovine GM-CSF (Entrican et al. 1996). Removal of the preservative is recommended prior to use in functional assays - Bio-Rad recommend the use of a Slide-A-Lyser® dialysis cassette for this purpose.
References	- 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. - Pedersen, L.G. <i>et al.</i> (2002) Identification of monoclonal antibodies that cross-react with cytokines from different animal species. Vet Immunol Immunopathol. 88 (3-4): 111-22. - 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. Reprod Fertil Dev. 19: 585-93. - 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. - 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. - Schnabel, C.L. <i>et al.</i> (2013) Evaluation of the reactivity of commercially available monoclonal antibodies with equine cytokines Veterinary Immunology and Immunopathology. 156 (1-2): 1-19.
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.
Shelf Life	18 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: 10040: https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf
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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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