

Datasheet: MCA1828GA

Description:	MOUSE ANTI BOVINE GM-CSF
Specificity:	GM-CSF
Other names:	GRANULOCYTE MACROPHAGE COLONY STIMULATING FACTOR
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	CC305
Isotype:	IgG1
Quantity:	0.1 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	▪			5 ug/ml as coating antibody
Immunoprecipitation			▪	
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

Bovine

Species Cross Reactivity

Reacts with: Sheep

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 G from tissue culture

supernatant

Buffer Solution Phosphate buffered saline

Preservative Stabilisers 0.09% sodium azide (NaN₃)

Carrier Free Yes

Approx. Protein Concentrations IgG concentration 1.0 mg/ml

External Database Links

UniProt:

[P11052](#) [Related reagents](#)

Entrez Gene:

[281095](#) CSF2 [Related reagents](#)

Fusion Partners Spleen cells from immunised C57/BL mice were fused with cells of the mouse SP2/0 myeloma cell line.

Specificity **Mouse anti Bovine GM-CSF antibody, clone CC305** recognizes bovine granulocyte macrophage colony-stimulating factor (GM-CSF) also known as CSF-2. Bovine GM-CSF is a 143 amino acid cytokine which stimulates proliferation and differentiation of hematopoietic precursors.

Mouse anti Bovine GM-CSF antibody, clone CC305 has been used as a capture antibody in conjunction with Mouse anti Sheep GM-CSF, clone 3C2 as a detection reagent in a sandwich ELISA for the measurement of bovine GM-CSF produced by peripheral blood mononuclear cells *in vitro* ([Kennedy et al. 2002](#)).

ELISA This product may be used as a capture antibody in a sandwich ELISA together with [MCA1924](#) when conjugated to biotin as the detection reagent.

References

1. Kennedy HE *et al.* (2002) Modulation of immune responses to *Mycobacterium bovis* in cattle depleted of WC1(+) gamma delta T cells. [Infect Immun. 70 \(3\): 1488-500.](#)
2. Boutet, P. *et al.* (2004) Delayed neutrophil apoptosis in bovine subclinical mastitis. [J Dairy Sci. 87 \(12\): 4104-14.](#)
3. Bao, Z.J. *et al.* (2014) Recombinant bovine interferon- τ enhances *in vitro* development of bovine embryos by upregulating expression of connexin 43 and E-cadherin. [J Dairy Sci. 97 \(11\): 6917-25.](#)
4. Pedersen, L.G. *et al.* (2002) Identification of monoclonal antibodies that cross-react with cytokines from different animal species [Vet Immunol Immunopathol. 88: 111-22.](#)
5. Davies, C.J. *et al.* (2004) Methods of minimizing immunological rejection of a nuclear transfer fetus. [U.S. Patent Application: US 2004/0029825 A1](#)

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
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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

Goat Anti Mouse IgG (STAR77...)	HRP
Rabbit Anti Mouse IgG (STAR12...)	RPE
Goat Anti Mouse IgG (STAR70...)	FITC
Goat Anti Mouse IgG IgA IgM (STAR87...)	Alk. Phos. , HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (STAR76...)	RPE
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight®488 , DyLight®550 , DyLight®650 , DyLight®680 , DyLight®800 , FITC , HRP
Rabbit Anti Mouse IgG (STAR13...)	HRP
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

North & South America	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: antibody_sales_us@bio-rad.com	Worldwide	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com	Europe	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com
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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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Printed on 07 Nov 2022