

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.
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 (NaN ₃)
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 <i>in vitro</i> (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 <i>et al.</i> (2002) Modulation of immune responses to <i>Mycobacterium bovis</i> in cattle depleted of WC1(+) gamma delta T cells. Infect Immun. 70 (3): 1488-500. 2. Boutet, P. <i>et al.</i> (2004) Delayed neutrophil apoptosis in bovine subclinical mastitis. J Dairy Sci. 87 (12): 4104-14. 3. Bao, Z.J. <i>et al.</i> (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. <i>et al.</i> (2002) Identification of monoclonal antibodies that cross-react with cytokines from different animal species Vet Immunol Immunopathol. 88: 111-22. 5. Davies, C.J. <i>et al.</i> (2004) Methods of minimizing immunological rejection of a nuclear transfer fetus. U.S. Patent Application: US 2004/0029825 A1
Storage	Store at +4°C or at -20°C if preferred. This product should be stored undiluted. 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
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: 10040: https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR76...) [RPE](#)
Goat Anti Mouse IgG IgA IgM (STAR87...) [Alk. Phos.](#), [HRP](#)

Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight®488 , DyLight®549 , DyLight®649 , DyLight®680 , DyLight®800 , FITC , HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (STAR77...)	HRP
Rabbit Anti Mouse IgG (STAR12...)	RPE
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP
Rabbit Anti Mouse IgG (STAR8...)	DyLight®800
Goat Anti Mouse IgG (STAR70...)	FITC
Rabbit Anti Mouse IgG (STAR13...)	HRP
Human Anti Mouse IgG1 (HCA036...)	HRP

Recommended Negative Controls

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

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