

Datasheet: MCA1964

BATCH NUMBER 1711

Description:	MOUSE ANTI BOVINE INTERFERON GAMMA
Specificity:	IFN GAMMA
Other names:	INTERFERON GAMMA
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	7B6
Isotype:	IgG1
Quantity:	0.5 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 (1)	▪			1/500 - 1/2000
Immunohistology - Frozen			▪	
Immunohistology - Paraffin (2)	▪			
ELISA		▪		
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.

(1)Membrane permeabilization is required for this application. The use of Leucoperm™ (Product Code [BUF09A](#)) is recommended for this purpose.

(2)This product requires antigen retrieval using heat treatment prior to staining of paraffin sections.Sodium citrate buffer pH 6.0 is recommended for this purpose.

Target Species	Bovine
Species Cross Reactivity	Reacts with: Sheep, Fallow deer, Goat 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
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Preparation	Purified IgG prepared by affinity chromatography on Protein G
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Buffer Solution	Phosphate buffered saline
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Preservative Stabilisers	0.09% Sodium Azide
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Carrier Free	Yes
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Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
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External Database Links	UniProt: P07353 Related reagents Entrez Gene: 281237 IFNG Related reagents
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RRID	AB_2123455
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Specificity	Mouse anti Bovine interferon-γ antibody, clone 7B6 recognises both native and recombinant bovine IFN- γ . Bovine interferon- γ is a 166 amino acid ~18 kDa secreted cytokine with antiviral activity. Interferon- γ , secreted by lymphocytes in response to specific mitogens, is also a potent macrophage activator and has antiproliferative actions on transformed cells and can enhance functions of type-1 interferons.
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Flow Cytometry	Use 10ul of the suggested working dilution to label 1×10^6 cells in 100ul.
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References	<ol style="list-style-type: none">1. Weynants, V. <i>et al.</i> (1998) Quantitative assessment by flow cytometry of T-lymphocytes producing antigen-specific gamma-interferon in <i>Brucella</i> immune cattle. Vet Immunol Immunopathol. 66 (3-4): 309-20.2. Esteves, I. <i>et al.</i> (2004) Protective killed <i>Ehrlichia ruminantium</i> vaccine elicits IFN-gamma responses by CD4+ and CD8+ T lymphocytes in goats. Vet Immunol Immunopathol. 98 (1-2): 49-57.3. Gillan, S. <i>et al.</i> (2010) Identification of immune parameters to differentiate disease states among sheep infected with <i>Mycobacterium avium</i> subsp. paratuberculosis. Clin Vaccine Immunol. 17: 108-17.4. Stevens, E.T. <i>et al.</i> (2009) The induction of a cell-mediated immune response to bovine viral diarrhoea virus with an adjuvanted inactivated vaccine. Vet Ther. 10: E1-8.5. Lei, L. <i>et al.</i> (2008) Live <i>Mycobacterium avium</i> subsp. <i>paratuberculosis</i> and a killed-bacterium vaccine induce distinct subcutaneous granulomas, with unique cellular and cytokine profiles. Clin Vaccine Immunol. 15: 783-93.6. Rogers, A.N. <i>et al.</i> (2005) Gammadelta T cell function varies with the expressed WC1 coreceptor. J Immunol. 174: 3386-93.
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7. Rosbottom, A. *et al.* (2008) Upregulation of cytokines is detected in the placentas of cattle infected with *Neospora caninum* and is more marked early in gestation when fetal death is observed. [Infect Immun. 76 \(6\): 2352-61.](#)
8. García-Jiménez, W.L. (2012) Histological and immunohistochemical characterisation of *Mycobacterium bovis* induced granulomas in naturally infected fallow deer (*Dama dama*). [Vet Immunol Immunopathol. 149: 66-75.](#)
9. Canal, A.M. *et al.* (2017) Immunohistochemical detection of pro-inflammatory and anti-inflammatory cytokines in granulomas in cattle with natural *Mycobacterium bovis* infection. [Res Vet Sci. 110: 34-39.](#)
10. Stevens, E.T. *et al.* (2009) The induction of a cell-mediated immune response to bovine viral diarrhoea virus with an adjuvanted inactivated vaccine. [Vet Ther. 10 \(4\): E1-8.](#)
11. Çomaklı, S. & Özdemir, S. (2019) Comparative Evaluation of the Immune Responses in Cattle Mammary Tissues Naturally Infected with Bovine Parainfluenza Virus Type 3 and Bovine Alpha herpesvirus-1. [Pathogens. 8 \(1\)Feb 25 \[Epub ahead of print\].](#)

Storage	<p>Store at +4°C or at -20°C if preferred.</p> <p>This product should be stored undiluted.</p> <p>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.</p>
Guarantee	12 months from date of despatch
Health And Safety Information	<p>Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/MCA1964</p> <p>10040</p>
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Rabbit Anti Mouse IgG (STAR12...)	RPE
Goat Anti Mouse IgG IgA IgM (STAR87...)	HRP
Goat Anti Mouse IgG (STAR76...)	RPE
Goat Anti Mouse IgG (STAR70...)	FITC
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 (STAR9...)	FITC
Goat Anti Mouse IgG (STAR77...)	HRP
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP
Rabbit Anti Mouse IgG (STAR13...)	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

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