

Datasheet: MCA1964

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.
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein G
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide

Carrier Free	Yes
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
External Database Links	UniProt: P07353 Related reagents Entrez Gene: 281237 IFNG Related reagents
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.
Flow Cytometry	Use 10ul of the suggested working dilution to label 1x10 ⁶ cells in 100ul.
References	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 diarrhea 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. paratuberculosis 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. 7. Rosbottom, A. <i>et al.</i> (2008) Upregulation of cytokines is detected in the placentas of cattle infected with <i>Neospora caninum</i> 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 <i>Mycobacterium bovis</i> induced granulomas in naturally infected fallow deer (<i>Dama dama</i>). Vet Immunol Immunopathol. 149: 66-75. 9. Canal, A.M. <i>et al.</i> (2017) Immunohistochemical detection of pro-inflammatory and anti-inflammatory cytokines in granulomas in cattle with natural <i>Mycobacterium bovis</i> infection. Res Vet Sci. 110: 34-39. 10. Stevens, E.T. <i>et al.</i> (2009) The induction of a cell-mediated immune response to bovine viral diarrhea virus with an adjuvanted inactivated vaccine. Vet Ther. 10 (4): E1-8.
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.
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 \(MCA928\)](#)

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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