

Datasheet: MCA1964

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|----------------------|------------------------------------|
| 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

RRID AB_2123455

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 0.09% Sodium Azide

Stabilisers

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 1×10^6 cells in 100ul.

References

1. Weynants, V. *et al.* (1998) Quantitative assessment by flow cytometry of T-lymphocytes producing antigen-specific gamma-interferon in *Brucella* immune cattle. [Vet Immunol Immunopathol. 66 \(3-4\): 309-20.](#)
 2. Esteves, I. *et al.* (2004) Protective killed *Ehrlichia ruminantium* vaccine elicits IFN-gamma responses by CD4+ and CD8+ T lymphocytes in goats. [Vet Immunol Immunopathol. 98 \(1-2\): 49-57.](#)
 3. Gillan, S. *et al.* (2010) Identification of immune parameters to differentiate disease states among sheep infected with *Mycobacterium avium* subsp. paratuberculosis. [Clin Vaccine Immunol. 17: 108-17.](#)
 4. Stevens, E.T. *et al.* (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. *et al.* (2008) Live *Mycobacterium avium* 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. *et al.* (2005) Gammadelta T cell function varies with the expressed WC1 coreceptor. [J Immunol. 174: 3386-93.](#)
 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 diarrhea 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 \[Epub ahead of print\].](#)
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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.

Guarantee 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 IgA IgM (STAR87...) [Alk. Phos.](#), [HRP](#)
Goat Anti Mouse IgG (STAR77...) [HRP](#)
Rabbit Anti Mouse IgG (STAR12...) [RPE](#)
Rabbit Anti Mouse IgG (STAR8...) [DyLight®800](#)
Rabbit Anti Mouse IgG (STAR13...) [HRP](#)
Goat Anti Mouse IgG (STAR76...) [RPE](#)
Goat Anti Mouse IgG (STAR70...) [FITC](#)
Goat Anti Mouse IgG (Fc) (STAR120...) [FITC](#), [HRP](#)
Rabbit Anti Mouse IgG (STAR9...) [FITC](#)
Goat Anti Mouse IgG (H/L) (STAR117...) [Alk. Phos.](#), [DyLight®488](#), [DyLight®680](#),
[DyLight®800](#), [FITC](#), [HRP](#)

Recommended Negative Controls

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

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