

Datasheet: MCA2112

BATCH NUMBER 1608

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| Description: | MOUSE ANTI BOVINE INTERFERON GAMMA |
| Specificity: | IFN GAMMA |
| Other names: | Immune interferon |
| Format: | Purified |
| Product Type: | Monoclonal Antibody |
| Clone: | CC330 |
| 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) | ▪ | | | 1/50 - 1/100 |
| Immunohistology - Frozen | | | ▪ | |
| Immunohistology - Paraffin | | | ▪ | |
| ELISA | ▪ | | | 5ug/ml as capture antibody |
| Immunoprecipitation | | | ▪ | |
| Western Blotting | | | ▪ | |
| ELISpot | ▪ | | | |

Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

(1) Membrane permeabilisation is required for this application. Bio-Rad recommends the use of Leucoperm™ (Product Code [BUF09](#)) for this purpose.

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| Target Species | Bovine |
| Species Cross Reactivity | <p>Reacts with: Sheep, Goat</p> <p>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.</p> |

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| Product Form | Purified IgG - liquid |
| Preparation | Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant |
| Buffer Solution | Phosphate buffered saline |
| Preservative Stabilisers | 0.09% Sodium Azide |
| Carrier Free | Yes |
| Approx. Protein Concentrations | IgG concentration 1.0 mg/ml |
| Immunogen | Recombinant bovine IFN-gamma. |
| External Database Links | <p>UniProt: P07353 Related reagents</p> <p>Entrez Gene: 281237 IFNG Related reagents</p> |
| RRID | AB_2123456 |
| Specificity | Mouse anti Bovine interferon γ antibody, clone CC330 recognizes bovine interferon gamma, also known as immune interferon. Interferon γ is a 143 amino acid ~20 kDa immunomodulatory cytokine secreted predominantly by T lymphocytes in response to infection by invading microorganisms. Interferon γ enhances cytotoxic activities of many cell types including macrophages, NK cells and T lymphocytes (Weiss et al. 2002). |
| Flow Cytometry | Use 10ul of the suggested working dilution to label 10^6 cells or 100ul whole blood. |
| ELISA | Mouse anti Bovine interferon- γ antibody, clone CC330 may be used as a capture reagent in a sandwich ELISA in combination with Mouse anti Bovine interferon- γ antibody, clone CC302 (MCA1783B) as a detection reagent and recombinant bovine interferon- γ (PBP007A) as a protein standard. |
| References | <ol style="list-style-type: none"> Mwangi, W. <i>et al.</i> (2002) DNA-encoded fetal liver tyrosine kinase 3 ligand and granulocyte macrophage-colony-stimulating factor increase dendritic cell recruitment to the inoculation site and enhance antigen-specific CD4+ T cell responses induced by DNA vaccination of outbred animals. J Immunol. 169 (7): 3837-46. Sow, F.B. <i>et al.</i> (2011) Respiratory syncytial virus is associated with an inflammatory response in lungs and architectural remodeling of lung-draining lymph nodes of newborn lambs. Am J Physiol Lung Cell Mol Physiol. 300 (1): L12-24. Elh mouzi-Younes, J. <i>et al.</i> (2010) Ovine CD16+/CD14- blood lymphocytes present all the major characteristics of natural killer cells. Vet Res. 41 (1): 4. Ferret-Bernard, S. <i>et al.</i> (2011) Mesenteric lymph node cells from neonates present a |

- prominent IL-12 response to CpG oligodeoxynucleotide via an IL-15 feedback loop of amplification. [Vet Res. 42:19.](#)
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 16. Verhelst, D. *et al.* (2014) Parasite distribution and associated immune response during the acute phase of *Toxoplasma gondii* infection in sheep. [BMC Vet Res. 10: 293.](#)
 17. Köhler H *et al.* (2015) Characterization of a caprine model for the subclinical initial phase of *Mycobacterium avium* subsp. *paratuberculosis* infection. [BMC Vet Res. 11 \(1\): 74.](#)
 18. Bergmann, A. *et al.* (2015) *In Vivo* Volatile Organic Compound Signatures of *Mycobacterium avium* subsp. *paratuberculosis*. [PLoS One. 10 \(4\): e0123980.](#)
 19. Cassidy-Cain, R.L. *et al.* (2017) Inhibition of Antigen-Specific and Nonspecific Stimulation of Bovine T and B Cells by Lymphostatin from Attaching and Effacing *Escherichia coli*. [Infect Immun. 85 \(2\): pii: e00845-16. \[Epub ahead of print\]](#)

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.

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| Guarantee | 12 months from date of despatch |
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| Health And Safety Information | Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/MCA2112 10040 |
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| Regulatory | For research purposes only |
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Related Products

Recommended Secondary Antibodies

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| Rabbit Anti Mouse IgG (STAR12...) | RPE |
| Goat Anti Mouse IgG IgA IgM (STAR87...) | HRP |
| Goat Anti Mouse IgG (STAR76...) | RPE |
| Rabbit Anti Mouse IgG (STAR13...) | HRP |
| 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 |

Recommended Negative Controls

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

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| 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)
'M366201:200529'

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