

Datasheet: MCA1581

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| Description: | MOUSE ANTI HUMAN INTERFERON GAMMA |
| Specificity: | IFN GAMMA |
| Other names: | INTERFERON GAMMA |
| Format: | Purified |
| Product Type: | Monoclonal Antibody |
| Clone: | D9D10 |
| 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) | ▪ | | | 1/10 - 1/100 |
| Immunohistology - Frozen | | | ▪ | |
| Immunohistology - Paraffin | | | ▪ | |
| ELISA | ▪ | | | |
| Immunoprecipitation | | | ▪ | |
| Western Blotting | ▪ | | | |

Where this antibody 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 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 | Human |
| Species Cross Reactivity | Reacts with: Baboon N.B. Antibody reactivity and working conditions may vary between species. |
| Product Form | Purified IgG - liquid |
| Preparation | Purified IgG prepared by ion exchange chromatography |
| Buffer Solution | Phosphate buffered saline |
| Preservative Stabilisers | 0.09% Sodium Azide |
| Approx. Protein Concentrations | IgG concentration 1.0 mg/ml |

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| Immunogen | Natural human interferon-gamma. |
| External Database Links | <p>UniProt: P01579 Related reagents</p> <p>Entrez Gene: 3458 IFNG Related reagents</p> |
| Fusion Partners | Spleen cells from immunized BALB/c mice were fused with cells of the mouse P3X63-Ag-8.653 myeloma cell line. |
| Specificity | <p>Mouse anti Human Interferon gamma antibody, clone D9D10 recognizes both natural and recombinant human interferon gamma, binding only to the dimeric (functional) form.</p> <p>Mouse anti Human Interferon gamma antibody, clone D9D10 has been reported to neutralize the activity of natural and recombinant IFN gamma.</p> |
| Flow Cytometry | Use 10ul of the suggested working dilution to label 10 ⁶ cells in 100ul. |
| References | <ol style="list-style-type: none"> Andersson, U. <i>et al.</i> (1986) Phenotypic characterization of individual interferon-gamma-producing cells after OKT3 antibody activation. Eur J Immunol. 16 (11): 1457-60. Sandvig, S. <i>et al.</i> (1987) Gamma-interferon is produced by CD3+ and CD3- lymphocytes. Immunol Rev. 97: 51-65. Andersson U <i>et al.</i> (1988) Enumeration of IFN-gamma-producing cells by flow cytometry. Comparison with fluorescence microscopy. J Immunol Methods. 112 (1): 139-42. Horowitz, A. <i>et al.</i> (2010) NK cells as effectors of acquired immune responses: effector CD4+ T cell-dependent activation of NK cells following vaccination. J Immunol. 185 (5): 2808-18. Buggins, A.G. <i>ety al.</i> (2001) Microenvironment produced by acute myeloid leukemia cells prevents T cell activation and proliferation by inhibition of NF-kappaB, c-Myc, and pRb pathways. J Immunol. 167: 6021-30. Burton, O.T. <i>et al.</i> (2010) Roles for TGF-beta and programmed cell death 1 ligand 1 in regulatory T cell expansion and diabetes suppression by zymosan in nonobese diabetic mice. J Immunol. 185: 2754-62. Cox, K. <i>et al.</i> (2005) Plasmacytoid dendritic cells (PDC) are the major DC subset innately producing cytokines in human lymph nodes. J Leukoc Biol. 78: 1142-52. Newman, K.C. <i>et al.</i> (2006) Cross-talk with myeloid accessory cells regulates human natural killer cell interferon-gamma responses to malaria. PLoS Pathog. 2: e118. Horowitz, A. & Riley, E.M. (2013) Activation of human NK cells by <i>Plasmodium</i>-infected red blood cells. Methods Mol Biol. 923: 447-64. |
| 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> |
| 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 |

Related Products

Recommended Secondary Antibodies

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| 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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| 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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