

Datasheet: MCA6239B

**BATCH NUMBER 100005420**

|                      |                                   |
|----------------------|-----------------------------------|
| <b>Description:</b>  | MOUSE ANTI HUMAN IFN GAMMA:Biotin |
| <b>Specificity:</b>  | IFN GAMMA                         |
| <b>Format:</b>       | Biotin                            |
| <b>Product Type:</b> | Monoclonal Antibody               |
| <b>Clone:</b>        | 18F11G6                           |
| <b>Isotype:</b>      | IgG2a                             |
| <b>Quantity:</b>     | 0.1 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](http://www.bio-rad-antibodies.com/protocols).

|       | Yes | No | Not Determined | Suggested Dilution |
|-------|-----|----|----------------|--------------------|
| ELISA | ▪   |    |                | 1.0 ug/ml          |

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.

|                                       |   |
|---------------------------------------|---|
| <b>Target Species</b>                 | Human   |
| <b>Product Form</b>                   | Purified IgG conjugated to Biotin - liquid  |
| <b>Preparation</b>                    | Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant |
| <b>Buffer Solution</b>                | Phosphate buffered saline   |
| <b>Preservative</b>                   | 0.09% Sodium Azide (NaN <sub>3</sub> )  |
| <b>Stabilisers</b>                    | 1% Bovine Serum Albumin   |
| <b>Approx. Protein Concentrations</b> | IgG concentration 0.1 mg/ml   |
| <b>Immunogen</b>                      | <i>E. coli</i> derived recombinant human full length IFN gamma (Gln24-Gln166)                 |

**External Database  
Links**

**UniProt:**

[P01579](#)   [Related reagents](#)

**Entrez Gene:**

[3458](#)   IFNG   [Related reagents](#)

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**Fusion Partners**

Cell fusion between immunized BALB/c mouse spleen cells and mouse myeloma SP2/0

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**Specificity**

**Mouse anti Human IFN gamma antibody, clone 18F11G6**, recognizes interferon gamma (IFN gamma) also known as immune interferon, a type II interferon. It is a cytokine which is mainly expressed by CD4+ Th1 T lymphocytes and natural killer cells. IFN gamma plays many roles within immunity, including the activation of macrophages, T helper lymphocytes, stimulating antigen presentation, inflammation and leukocyte trafficking ([Pereiro \*et al.\* 2019](#)).

After infection antigen presenting cells secrete IL-12, IL-18 and IL-1 beta which can promote IFN gamma synthesis ([Schoenborn & Wilson 2007](#)). IFN gamma can then elicit responses through interferon gamma receptor 1 and interferon gamma receptor 2. Activation of these receptors can then trigger immune responses through the JAK/STAT signaling pathway ([Pereiro \*et al.\* 2019](#)).

Under physiological conditions, IFN gamma is constitutively expressed through a tightly controlled mechanism. However, it has been shown to have some protumorigenic roles, by upregulating checkpoint inhibitor programmed cell-death ligand 1. Conversely though, there have been some positive associations between IFN gamma and patient survival in several cancer types. As such, the exact roles that IFN gamma plays in cancer may largely be dependent on tumor specific context and microenvironmental cues ([Castro \*et al.\* 2018](#)).

The biotinylated Mouse anti Human IFN gamma antibody, clone 18F11G6 (MCA6239B) can be used as a detection antibody in a sandwich ELISA with the purified Mouse anti Human IFN gamma antibody, clone 8C4H9 ([MCA6238GA](#)) as the capture antibody.

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**Storage**

Store at +4°C or at -20°C if preferred.  
Storage in frost-free freezers is not recommended.  
This product should be stored undiluted. 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 #10041 available at:  
10041: <https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf>

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**Regulatory**

For research purposes only

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**Related Products**

## ELISA Matched Pair - Capture Antibody

### MOUSE ANTI HUMAN IFN GAMMA (MCA6238GA)

**North & South** Tel: +1 800 265 7376

**America** Fax: +1 919 878 3751

Email: [antibody\\_sales\\_us@bio-rad.com](mailto: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](mailto: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](mailto:antibody_sales_de@bio-rad.com)

To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://bio-rad-antibodies.com/datasheets)

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