Technical Data Sheet

# Purified Rat Anti-Mouse IFN-γ

## Product Information

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| **Material Number:** | **551309** |
| **Size:** | 0.5 mg |
| **Concentration:** | 0.5 mg/ml |
| **Clone:** | AN-18 |
| **Immunogen:** | Mouse IFN-γ protein |
| **Isotype:** | Rat IgG1, κ |
| **Reactivity:** | QC Testing: Mouse |
| **Storage Buffer:** | Aqueous buffered solution containing ≤0.09% sodium azide. |

## Description

The AN-18 antibody reacts with the mouse interferon-γ (IFN-γ) protein but does not recognize human IFN-γ (reactivity with other species has not been established). AN-18 has been reported to be useful for the neutralization of the antiviral and macrophage-activating activities of IFN-γ. The immunogen used to generate this hybridoma was mouse IFN-γ protein that was secreted by a T cell lymphoma cell line.

This antibody is routinely tested by ELISA Capture. Other applications were tested at BD Biosciences Pharmingen during antibody development only or reported in the literature.

## Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.
Store undiluted at 4° C.

## Application Notes

**Application**

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| ELISA Capture | Routinely Tested |
| Immunoprecipitation | Reported |
| Neutralization | Reported |

**Recommended Assay Procedure:**

**ELISA Capture:** The AN-18 antibody has been reported to be useful in a sandwich ELISA that measures mouse IFN-γ protein levels. The purified AN-18 antibody (Cat. No. 551309) can be used as a capture antibody when paired with biotinylated R4-6A2 rat anti-mouse IFN-γ antibody (Cat. No. 551506) as the detecting antibody and with recombinant mouse IFN-γ (Cat. No. 554587) as the standard. The purified AN-18 antibody should be titrated 1-4 µg/ml to determine its optimal concentration for ELISA capture. To obtain linear standard curves, doubling dilutions of mouse IFN-γ ranging from 500 to 5 pg/ml are recommended for inclusion in each ELISA plate. For specific methodology, please visit the protocols section or chapter on ELISA in the Immune Function Handbook, both of which are posted on our website, www.bdbiosciences.com.

***Note:*** This ELISA pair is recommended primarily for measuring cytokine from experimental cell culture systems. These ELISA reagents are not recommended for assaying serum or plasma samples. For measuring mouse IFN-γ in serum or plasma our mouse IFN-γ OptEIA™ Set (Cat. No. 551866) or OptEIA Kit (Cat. No. 550582) are specially formulated and recommended.

**Immunoprecipitation:** The AN-18 antibody has been reported to be used for the immunoprecipitation of mouse IFN-γ; however, the antibody is not routinely tested for this application at Pharmingen.

## Suggested Companion Products

| Catalog Number | Name | Size | Clone |
|---|---|---|---|
| 551506 | Biotin Anti-Mouse IFN-γ | 0.5 mg | R4-6A2 |
| 554587 | Recombinant Mouse IFN-γ Protein | 10 µg | (none) |

**BD Biosciences**

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## Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.
3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.

## References


Abrams J. Immunoenzymetric assay of mouse and human cytokines using NIP-labeled anti-cytokine antibodies. In: Coligan J, Kruisbeek A, Margulies D, Shevach E, Strober W, ed. *Current Protocols in Immunology.* New York: John Wiley and Sons; 1995:6.20-6.21.(Clone-specific: ELISA)

Prat M, Gribaudo G, Comoglio PM, Cavallo G, Landolfo S. Monoclonal antibodies against murine gamma interferon. *Proc Natl Acad Sci U S A.* 1984; 81(14):4515-4519.(Immunogen: Immunoprecipitation)

Slade SJ, Langhorne J. Production of interferon-gamma during infection of mice with Plasmodium chabaudi chabaudi. *Immunobiology.* 1989; 179(4-5):353-365. (Clone-specific: ELISA, Neutralization)