## **Technical Data Sheet**

# Purified Mouse Anti-Human IFN-y

#### **Product Information**

551221 **Material Number:** 1.0 mg **Concentration:** 1.0 mg/ml NIB42 Clone:

Immunogen: Recombinant human IFN-γ

Mouse IgG1, κ Isotype: QC Testing: Human Reactivity:

Storage Buffer: Aqueous buffered solution containing ≤0.09% sodium azide.

### Description

The NIB42 antibody reacts with human interferon-gamma (IFN-γ). The immunogen used to generate the NIB42 hybridoma was recombinant human IFN-γ. This is a neutralizing antibody.

#### **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

ELISA Capture	Routinely Tested	
Neutralization	Tested During Development	
Western blot	Not Recommended	

#### **Recommended Assay Procedure:**

ELISA Capture: The purified NIB42 antibody (Cat. No. 551221) is useful as a capture antibody for a sandwich ELISA for measuring human IFN-γ protein levels. The purified NIB42 antibody can be paired with the biotinylated 4S.B3 antibody (Cat. No. 554550) as the detection antibody, with recombinant human IFN-γ (Cat. No. 554617 or Cat. No. 554616) as the standard. Purified NIB42 antibody should be titrated 2.0 -6.0 μg/ml to determine optimal concentration for ELISA capture. To obtain linear standard curves, doubling dilutions of IFN-γ standard ranging from ~2,000 to 15 pg/ml are recommended for inclusion in each ELISA plate. For specific methodology please visit the protocols sections or the chapter on ELISA in the Immune Function Handbook, both of which are posted on our web site, www.bdbiosciences.com.

Note 1: This ELISA pair is recommended primarily for measuring cytokine from experimental cell culture systems. These ELISA reagents are not recommended for assay of serum or plasma samples. For measuring human IFN-γ in serum or plasma our BD OptEIA<sup>TM</sup> ELISA Set (Cat. No. 555142) or BD OptEIA<sup>TM</sup> ELISA Kit (Cat. No. 550612) are specially formulated and recommended.

Note 2: This ELISA pair shows no cross-reactivity with any of the cytokines or chemokines tested (eg human IL-1α, IL-1β, IL-2, IL-3, IL-4, IL-5, IL-6, IL-7, IL-8, IL-9, IL-10, IL-11, IL-12 p70, IL-12 p40, IL-13, IL-15, G-CSF, GM-CSF, lymphotactin, MCP-1, MCP-2, MIP-1α, MIP-1β, NT-3, PDGF-AA, sCD23, SCF, TNF, LT-α, VEGF; mouse IL-1β, IL-2, IL-3, IL-4, IL-5, IL-6, IL-7, IL-9, IL-10, IL-12 p70, IL-15, GM-CSF, IFN-γ, MCP-1, TCA-3, TNF; rat IL-2, IL-4, IL-6, IL-10, GM-CSF, IFN-γ, TNF).

Neutralization: The no azide/low endotoxin (NA/LETM) format of the NIB42 antibody (Cat. No. 554547) is useful for neutralization of human IFN-y bioactivity. A suitable NA/LE mouse IgG1 isotype control to match the NIB42 antibody is the 107.3 antibody, (Cat. No. 554721).

**WB:** The NIB42 antibody is not recommended for Western blotting.

### **BD Biosciences**

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## **Suggested Companion Products**

Catalog Number	Name	Size	Clone	
554550	Biotin Mouse Anti-Human IFN-γ	0.5 mg	4S.B3	_
554616	Recombinant Human IFN-γ	25 μg	(none)	
554617	Recombinant Human IFNγ	50 μg	(none)	
555142	Human IFN-γ ELISA Set	20 tests	(none)	
550612	Human IFN-γ ELISA Kit II	2 plates	(none)	
554547	Purified NA/LE Mouse Anti-Human IFN-γ	each	B27	

## **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.
- 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

Meager A. Characterization of interferons and immunoassays. In: Clemens MJ, Morris AG, Gearing AJH, ed. *Lymphockies and Interferons. A Practical Approach*. Oxford: IRL Press Ltd; 1987:105-127.(Clone-specific: Neutralization)

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