

# IFN gamma Monoclonal Antibody (NIB42), eBioscience™

Product Details	
Size	50 µg
Species Reactivity	Human
Published Species	Human, Mouse
Host/Isotype	Mouse / IgG1, kappa
Class	Monoclonal
Type	Antibody
Clone	NIB42
Conjugate	Unconjugated
Form	Liquid
Concentration	0.5 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	4° C
RRID	AB_468475

Applications	Tested Dilution	Publications
Immunocytochemistry (ICC/IF)	-	1 Publication
Flow Cytometry (Flow)	-	8 Publications
ELISA (ELISA)	2-8 µg/mL	6 Publications
Neutralization (Neu)	-	8 Publications
Functional Assay (FN)	-	2 Publications
Inhibition Assays (IA)	-	1 Publication

## Product Specific Information

**Description:** The NIB42 antibody reacts with human interferon-gamma (IFN-gamma). The NIB42 antibody is a neutralizing antibody. IFN-gamma is an ~20 kDa factor produced by activated T, B and NK cells and is an anti-viral and anti-parasitic cytokine. IFN-gamma in synergy with other cytokines, such as TNF-alpha, inhibits proliferation of normal and transformed cells. Immunomodulatory effects of IFN-gamma are exerted on a wide range of cell types expressing the high affinity receptors for IFN-gamma. Glycosylation of IFN-gamma does not affect its biological activity.

**Applications Reported:** The NIB42 antibody has been reported for use in capture of human IFN gamma by ELISA, and for neutralizing IFN gamma bioactivity. Use Functional Grade purified for functional assays cat. 16-7318).

**Applications Tested:** The NIB42 antibody has been tested as the capture antibody in a sandwich ELISA for analysis of human Interferon-gamma (IFN-g) in combination with the biotin 4S.B3 (13-7319) antibody for detection and recombinant human IFNg (29-8319) as the standard. A suitable range of concentrations of this antibody for ELISA capture is 2-8 µg/mL. A standard curve consisting of doubling dilutions of the recombinant standard over the range of 1000 pg/mL - 8 pg/mL should be included in each ELISA plate. For ELISPOT Capture, the alternative clone MD-1 is recommended.

**Purity:** Greater than 90%, as determined by SDS-PAGE.

**Aggregation:** Less than 10%, as determined by HPLC.

Filtration: 0.2 µm post-manufacturing filtered.

26 References

Immunocytochemistry (1)

<p>Autophagy</p> <p><b>IFNG-mediated immune responses enhance autophagy against Mycobacterium tuberculosis antigens in patients with active tuberculosis.</b></p> <p>"Published figure using IFN gamma monoclonal antibody (Product # 14-7318-81) in ELISA"</p> <p>Authors: Rovetta AI,Peña D,Hernández Del Pino RE,Recalde GM,Pellegrini J,Bigi F,Musella RM,Palmero DJ,Gutierrez M,Colombo MI,García VE</p>	<p>Year</p> <p>2015</p>
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Flow Cytometry (8)

<p>Nature metabolism</p> <p><b>Fasting-induced FOXO4 blunts human CD4<sup>+</sup> T helper cell responsiveness.</b></p> <p>"Published figure using IFN gamma monoclonal antibody (Product # 14-7318-81) in Flow Cytometry"</p> <p>Authors: Han K,Singh K,Rodman MJ,Hassanzadeh S,Wu K,Nguyen A,Huffstutler RD,Seifuddin F,Dagur PK,Saxena A,McCoy JP,Chen J,Biancotto A,Stagliano KER,Teague HL,Mehta NN,Pirooznia M,Sack MN</p>	<p>Year</p> <p>2021</p>
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<p>Experimental &amp; molecular medicine</p> <p><b>Allogeneic ADSCs induce CD8 T cell-mediated cytotoxicity and faster cell death after exposure to xenogeneic serum or proinflammatory cytokines.</b></p> <p>"Published figure using IFN gamma monoclonal antibody (Product # 14-7318-81) in Flow Cytometry"</p> <p>Authors: Chang SH,Park CG</p>	<p>Year</p> <p>2019</p>
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[View more Flow references on thermofisher.com](#)

ELISA (6)

<p>Cancer immunology, immunotherapy : CII</p> <p><b>Induction of cytotoxic effector cells towards cholangiocellular, pancreatic, and colorectal tumor cells by activation of the immune checkpoint CD40/CD40L on dendritic cells.</b></p> <p>"Published figure using IFN gamma monoclonal antibody (Product # 14-7318-81) in ELISA"</p> <p>Authors: Sadeghlar F,Vogt A,Mohr RU,Mahn R,van Beekum K,Kornek M,Weismüller TJ,Branchi V,Matthaei H,Toma M,Schmidt-Wolf IGH,Kalff JC,Strassburg CP,González-Carmona MA</p>	<p>Year</p> <p>2021</p>
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- Neu (8)
- FN (2)
- IA (1)

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