full spectrum cell analysis®
eBioscience®

Anti-Human IFN gamma Functional Grade Purified

Catalog Number: 16-7318
Also Known As: Interferon-gamma, IFN-g, IFNg
RUO: For Research Use Only

Product Information

Contents: Anti-Human IFN gamma Functional Grade Purified
REF **Catalog Number:** 16-7318
Clone: NIB42
Concentration: 1 mg/ml
Host/Isotype: Mouse IgG1, κ
Handling Conditions: Use in sterile environment.
Endotoxin Level: Less than 0.001 ng/ug antibody, as determined by the LAL assay.

Formulation: aqueous buffer, no sodium azide
Temperature Limitation: Store at 2-8°C.
LOT **Batch Code:** Refer to Vial
Use By: Refer to Vial

Description

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

Applications Reported

The NIB42 antibody has been reported for use in neutralization of human IFN-γ and for ELISA capture.

Applications Tested

The Functional Grade Purified NIB42 antibody has been tested by LAL assay to verify low endotoxin levels and has been tested for ELISA capture and in bioassay for neutralization of IFN-γ bioactivity. The NIB42 antibody at 5 ug/ml has been found to inhibit by 50% the biological effects of 1 ng/ml human IFN-γ(ND50), in an EMCV assay of A549 cell protection. Detailed information and protocols about cytokine bioassays and in vitro cytokine neutralization using antibodies can be found in the BestProtocols® section.

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 (39-8319) 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.

References

Meager, A., S. Parti, et al. (1984). "Detection of hybridomas secreting monoclonal antibodies to human gamma interferon using a rapid screening technique and specificity of certain monoclonal antibodies to gamma interferon." J Interferon Res 4(4): 619-25.

Related Products

13-7319 Anti-Human IFN gamma Biotin (4S.B3)
14-8129 Human IL-12 p70 Recombinant Protein
14-8239 Human IL-23 Recombinant Protein
16-7317 Anti-Human/Non-Human Primate IFN gamma Functional Grade Purified (MD-1)
34-8049 Human IL-4 Recombinant Protein Carrier-Free
34-8239 Human IL-23 Recombinant Protein Carrier-Free
88-7234 Mouse IL-23 ELISA Ready-SET-Go!®

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