Anti-Mouse IFN gamma Functional Grade Purified

Catalog Number: 16-7312
Also Known As: Interferon-gamma, IFN-g, IFNg
Ruo: For Research Use Only

Product Information

Contents: Anti-Mouse IFN gamma Functional Grade Purified
Catalog Number: 16-7312
Clone: R4-6A2
Concentration: 1 mg/ml
Host/Isotype: Rat 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 R4-6A2 antibody reacts with mouse interferon-γ (IFN-γ), a homodimeric 15-20 kDa cytokine secreted by Th1 cells. The R4-6A2 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 R4-6A2 antibody has been reported for use in cytokine neutralization.

Applications Tested
The Functional Grade Purified R4-6A2 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 R4-6A2 antibody at 15 ng/ml has been found to inhibit by 50% the biological effects of 1 ng/ml mouse IFN-γ (ND50), in an EMCV assay of L929 cell protection. Detailed information and protocols about cytokine bioassays and in vitro cytokine neutralization using antibodies can be found in the BestProtocols® section.

The R4-6A2 antibody has been tested as the capture antibody in a sandwich ELISA for analysis of mouse Interferon-gamma (IFN-g) in combination with the biotin XMG1.2 (13-7311) antibody for detection and recombinant mouse IFNg (39-8311) as the standard. A suitable range of concentrations of this antibody for ELISA capture is 1-4 µg/ml. A standard curve consisting of doubling dilutions of the recombinant standard over the range of 2000 pg/ml - 15 pg/ml should be included in each ELISA plate. Detailed instructions for Cytokine Sandwich ELISA Using Matched Antibody Pairs can be found in the BestProtocols section.

For ELISPOT capture, the Functional Grade Purified AN-18 antibody is recommended.

References


Related Products
14-8231 Mouse IL-23 Recombinant Protein
16-4301 Rat IgG1 K Isotype Control Functional Grade Purified
51-7172 Anti-Mouse IL-17A Alexa Fluor® 647 (To Be Discontinued. Refer to Alternative clone: eBio17B7 cat. 17-7177) (eBioTC11-18H10.1)
53-7172 Anti-Mouse IL-17A Alexa Fluor® 488 (eBioTC11-18H10.1)
88-7234 Mouse IL-23 ELISA Ready-SET-Go®