Anti-Mouse IFN gamma Purified

Catalog Number: 14-7311
Also Known As: Interferon-gamma, IFN-g, IFNg
For Research Use Only. Not for use in diagnostic procedures.

Product Information

Contents: Anti-Mouse IFN gamma Purified
REF **Catalog Number:** 14-7311
Clone: XMG1.2
Concentration: 0.5 mg/mL
Host/Isotype: Rat IgG1, kappa

Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer
Temperature Limitation: Store at 2-8°C.
LOT **Batch Code:** Refer to Vial
Use By: Refer to Vial
Caution, contains Azide

Description

The XMG1.2 antibody reacts with mouse interferon (IFN) gamma. The XMG1.2 antibody is a neutralizing antibody. Mouse IFN gamma is a 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 XMG1.2 antibody has been reported for use in ELISA, intracellular staining for flow cytometric analysis, immunoblotting (WB), and for neutralization of IFNγ bioactivity.

Applications Tested

The XMG1.2 antibody has been tested as the capture antibody in a sandwich ELISA for analysis of mouse IFNγ in combination with the biotin R4-6A2 (13-7312) antibody for detection and recombinant mouse IFNγ (39-8311) as the standard. A suitable range of concentrations of this antibody for ELISA capture is 0.25-1 µg/mL. ***Excess amounts of XMG1.2 may significantly reduce ELISA sensitivity.*** 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.

References

Kimura A, Naka T, Kishimoto T. IL-6-dependent and -independent pathways in the development of interleukin 17-producing T helper cells. Proc Natl Acad Sci U S A. 2007 Jul 17;104(29):12099-104. (**XMG1.2**, IC flow, PubMed)

Zhang Y, Xu G, Zhang L, Roberts AI, Shi Y. Th17 cells undergo Fas-mediated activation-induced cell death independent of IFN-gamma. J Immunol. 2008 Jul 1;181(1):190-6. (**XMG1.2**, IC flow, PubMed)

Cho KS, Hill AB. T cell acquisition of APC membrane can impact interpretation of adoptive transfer experiments using CD45 congenic mouse strains. J Immunol Methods. 2008 Jan 31;330(1-2):137-45. (**XMG1.2**, IC flow, PubMed)

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Hidalgo LG, Urmson J, Halloran PF. IFN-gamma decreases CTL generation by limiting IL-2 production: A feedback loop controlling effector cell production. Am J Transplant. 2005 Apr;5(4 Pt 1):651-61. (**XMG1.2**, NU, PubMed)

Abrams JS, Roncarolo MG, Yssel H, Andersson U, Gleich GJ, Silver JE. Strategies of anti-cytokine monoclonal antibody development: immunoassay of IL-10 and IL-5 in clinical samples. Immunol Rev. 1992 Jun;127:5-24.

Related Products

13-7312 Anti-Mouse IFN gamma Biotin (R4-6A2)
39-8311 Mouse IFN gamma Single-Use ELISA RSG Standard
88-7234 Mouse IL-23 ELISA Ready-SET-Go!® (Discontinued: Please see 88-7230 (2nd generation assay))

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