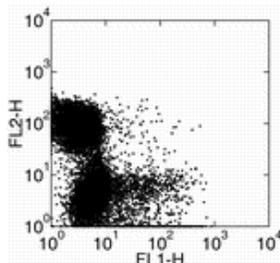


Anti-Mouse IFN gamma FITC

Catalog Number: 11-7311

Also Known As: Interferon-gamma, IFN-g, IFNg

For Research Use Only. Not for use in diagnostic procedures.



Mouse splenocytes were stimulated with Con A for 2 days, followed by Mouse IL-2 Recombinant Protein (cat. 14-8021) and Mouse IL-4 Recombinant Protein (cat. 14-8041) for 3 days, and re-stimulated with immobilized Anti-Mouse CD3 Functional Grade Purified (cat. 16-0032) and soluble Anti-Mouse CD28 Functional Grade Purified (cat. 16-0281) in the presence of Brefeldin A (cat. 00-4506) for 5 hours. The cells were surface stained with Anti-Mouse CD4 PE (cat. 12-0041) and intracellularly stained with Anti-Mouse IFN gamma FITC.

Product Information

Contents: Anti-Mouse IFN gamma FITC

REF **Catalog Number:** 11-7311

Clone: XMG1.2

Concentration: ug size: 0.5 mg/mL; test size: 5 uL (0.25 ug)/test

Host/Isotype: Rat IgG1, kappa

Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer

Temperature Limitation: Store at 2-8°C. Do not freeze. Light sensitive material.

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

This XMG1.2 antibody has been reported for use in intracellular staining followed by flow cytometric analysis.

Applications Tested

This XMG1.2 antibody is offered in 2 formats:

- µg size: has been tested by intracellular staining and flow cytometric analysis of stimulated mouse splenocytes. This can be used at less than or equal to 0.5 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

- test size: has been pre-titrated and tested by intracellular staining and flow cytometric analysis of stimulated mouse splenocytes. This can be used at 5 µL (0.25 µg) per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells/test.

References

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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)

Feng X, Akiyoshi DE, Sheoran A, Singh I, Hanawalt J, Zhang Q, Widmer G, Tzipori S. Serial propagation of the microsporidian *Enterocytozoon bieneusi* of human origin in immunocompromised rodents. *Infect Immun*. 2006 Aug;74(8):4424-9. (**XMG1.2**, FA)

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

00-4506 Brefeldin A Solution (1000X)

11-4301 Rat IgG1 K Isotype Control FITC

12-0041 Anti-Mouse CD4 PE (GK1.5)

14-8021 Mouse IL-2 Recombinant Protein

14-8041 Mouse IL-4 Recombinant Protein

16-0032 Anti-Mouse CD3 Functional Grade Purified (17A2)

16-0281 Anti-Mouse CD28 Functional Grade Purified (37.51)

88-7234 Mouse IL-23 ELISA Ready-SET-Go![®] (Discontinued: Please see 88-7230 (2nd generation assay))

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