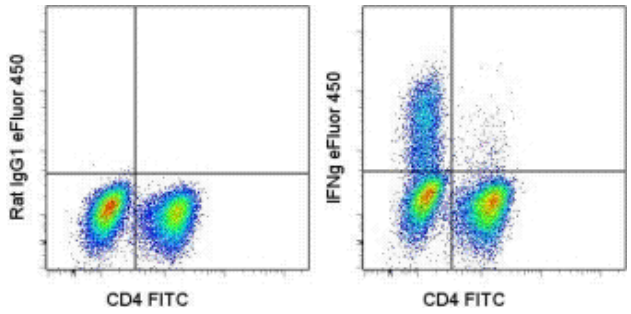
Anti-Mouse IFN gamma eFluor® 450

Catalog Number: 48-7311
Also Known As: Interferon-gamma, IFN-g, IFNg
For Research Use Only. Not for use in diagnostic procedures.



Intracellular staining of Mouse Cytokine Positive Control Cells (cat. 00-4500) with Anti-Mouse CD4 FITC (cat. 11-0041) and 0.25 ug of Rat IgG1 kappa Isotype Control eFluor® 450 (cat. 48-4301) (left) or Anti-Mouse IFN gamma eFluor® 450 (right). Total viable cells were used for analysis.

Product Information

Contents: Anti-Mouse IFN gamma eFluor® 450
REF **Catalog Number:** 48-7311
Clone: XMG1.2
Concentration: 0.2 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. 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 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 10^5 to 10^8 cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

eFluor™ 450 is a replacement for Pacific Blue®. eFluor™ 450 emits at 456 nm and is excited with the Violet laser (405 nm). Please make sure that your instrument is capable of detecting this fluorochome.

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)

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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

00-4500 Mouse Cytokine Positive Control Cells
11-0041 Anti-Mouse CD4 FITC (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)
48-4301 Rat IgG1 K Isotype Control eFluor® 450

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