

For Research Use Only

FcZero-rAb® Biotin Anti-Mouse IFN- γ Rabbit Recombinant Antibody

Catalog Number: Biotin-FcA98045



Basic Information

Catalog Number:

Biotin-FcA98045

Concentration:

100ug, 500 ug/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

EG0334

GenBank Accession Number:

BC119063

GeneID (NCBI):

15978

UNIPROT ID:

P01580

Full Name:

interferon gamma

Calculated MW:

17 kDa

Purification Method:

Protein A purification

CloneNo.:

240262C9

Recommended Dilutions:

FC (Intra): 0.25 ug per 10^6 cells in a 100 μ l suspension

Excitation/Emission maxima wavelengths:

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Applications

Tested Applications:

FC (Intra), ELISA

Species Specificity:

mouse

Positive Controls:

FC (Intra): PMA, Ionomycin and Brefeldin A treated C57BL/6 Th1-polarized splenocytes,

Background Information

Interferon gamma (IFN γ), is a type II interferon that provides immunity against bacterial, viral and protozoan infections. In its active form, IFN γ is a glycosylated, non-covalently linked homodimer of 29-32 kDa subunits. It is produced by a number of immune cell types including natural killer cells, natural killer T cells, and effector lymphocyte T cells following antigenic and inflammatory triggers. The IFN γ dimer binds to its cognate receptor which has two subunits: IFN- γ R1 which is the ligand-binding chain (α chain) and IFN- γ R2, the signal-transducing chain (β chain). Binding to the receptor activates the JAK/STAT pathway which in turn activates IFN γ responsive genes. While IFN γ can inhibit viral replication, it also works as an immune-modulator and immune-stimulator by increasing surface expression of class I MHC proteins. (PMID: 19268625; 10688427)

Storage

Storage:

Store at 2-8°C. Avoid exposure to light. Stable for one year after shipment.

Storage Buffer:

PBS with 0.09% sodium azide, pH7.3

For technical support and original validation data for this product please contact:

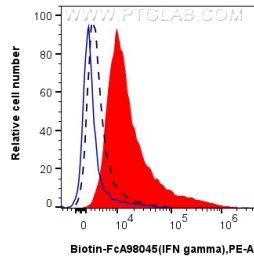
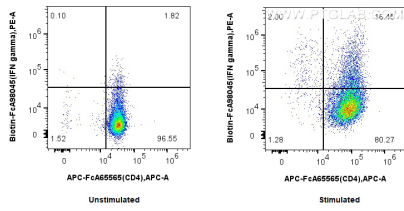
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Selected Validation Data



1x10⁶ untreated or PMA, Ionomycin and Brefeldin A treated C57BL/6 Th1-polarized splenocytes were intracellularly stained with FcZero-rAb™ APC Anti-Mouse CD4 and 0.25 ug Biotin Anti-Mouse IFN-gamma Rabbit RecAb (Biotin-FcA98045, Clone: 240262C9), and Streptavidin-PE Conjugate (PE-PF00030). Cells were fixed and permeabilized with Intracellular Flow Cytometry Fixation & Permeabilization Buffer Kit (PF00019).

1x10⁶ PMA, Ionomycin and Brefeldin A treated C57BL/6 Th1-polarized splenocytes were intracellularly stained with 0.25 ug Biotin Anti-Mouse IFN-gamma Rabbit RecAb (Biotin-FcA98045, Clone: 240262C9) (red) and Streptavidin-PE Conjugate (PE-PF00030), or 0.25 ug FcZero-rAb™ Biotin Rabbit IgG Isotype Control Recombinant Antibody (Biotin-FcA98136, Clone: 240953C9) (blue). 1x10⁶ untreated C57BL/6 Th1-polarized splenocytes were intracellularly stained with 0.25 ug

