

For Research Use Only

# FcZero-rAb® Biotin Anti-Mouse IFN-gamma Rabbit Recombinant Antibody

Catalog Number: Biotin-FcA98045



## Basic Information

Catalog Number:

Biotin-FcA98045

Size:

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<sup>6</sup> cells in a 100 µl 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  $\gamma$ ), is a type II interferon that provides immunity against bacterial, viral and protozoan infections. In its active form, IFN  $\gamma$  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  $\gamma$  dimer binds to its cognate receptor which has two subunits: IFN- $\gamma$  R1 which is the ligand-binding chain ( $\alpha$  chain) and IFN- $\gamma$  R2, the signal-transducing chain ( $\beta$  chain). Binding to the receptor activates the JAK/STAT pathway which in turn activates IFN  $\gamma$  responsive genes. While IFN  $\gamma$  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

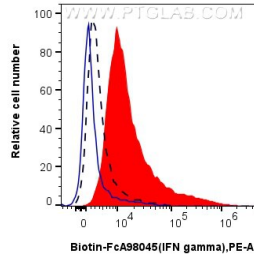
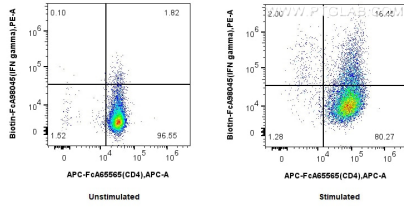
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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## Selected Validation Data



1x10<sup>6</sup> 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).

1x10<sup>6</sup> 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) and Streptavidin-PE Conjugate (PE-PF00030), or 0.25 ug FcZero-rAb™ Biotin Rabbit IgG Isotype Control Recombinant Antibody (Biotin-FcA98136, Clone: 240953C9) (blue). 1x10<sup>6</sup> untreated C57BL/6 Th1-polarized splenocytes were

