

For Research Use Only

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

Catalog Number: PE-FcA98045



## Basic Information

**Catalog Number:**

PE-FcA98045

**Concentration:**

100ug, 200 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): 0.1 ug per 10<sup>6</sup> cells in a 100 µl suspension

**Excitation/Emission maxima wavelengths:**

496 nm, 565 nm / 578 nm

## Applications

**Tested Applications:**

FC (Intra)

**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 and 0.5% BSA, pH7.3

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

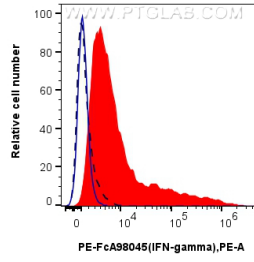
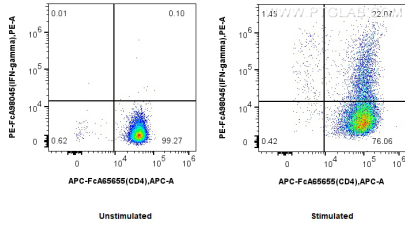
T: 4006900926

E: Proteintech-CN@ptglab.com

W: ptgcn.com

**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

## 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 0.1 ug PE Anti-Mouse IFN-gamma Rabbit RecAb (PE-FcA98045, Clone:240262C9). 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 0.1 ug PE Anti-Mouse IFN-gamma Rabbit RecAb (PE-FcA98045, Clone: 240262C9) (red) or 0.1 ug PE Rabbit IgG Isotype Control RecAb (PE-FcA98136, Clone: 240953C9) (blue). 1x10<sup>6</sup> untreated C57BL/6 Th1-polarized splenocytes were intracellularly stained with 0.25 ug Coralite® Plus 647 Anti-Mouse IFN-gamma Rabbit RecAb (CL647-FcA98045, Clone:

