

For Research Use Only

# FITC Plus Anti-Human IFN-gamma Rabbit Recombinant Antibody

Catalog Number: FITC-98187



## Basic Information

Catalog Number:

FITC-98187

Size:

100 tests, 5 µl/test

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

EG0004

GenBank Accession Number:

BC070256

GeneID (NCBI):

3458

ENSEMBL Gene ID:

ENSG00000111537

UNIPROT ID:

P01579

Full Name:

IFN gamma

Calculated MW:

166 aa, 19 kDa

Purification Method:

Protein A purification

CloneNo.:

241390B10

Recommended Dilutions:

FC (Intra): 5 µl per  $10^6$  cells in a 100 µl suspension

Excitation/Emission maximum wavelengths:

495 nm / 524 nm

## Applications

Tested Applications:

FC (Intra)

Species Specificity:

human

Positive Controls:

FC (Intra) : PMA and ionomycin treated human PBMCs,

## 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

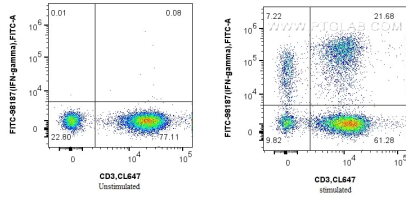
For technical support and original validation data for this product please contact:

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## Selected Validation Data



1x10<sup>6</sup> untreated or PMA and ionomycin treated human PBMCs were intracellularly stained with 5ul FITC Plus Anti-Human IFN-gamma Rabbit RecAb (FITC-98187, Clone: 241390B10). Cells were co-stained with CoraLite®594 Anti-Human CD3 (OKT3) Mouse IgG2a RecAb (CL594-65569, Clone: OKT3). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer.