

For Research Use Only

# Anti-Human IFN-gamma Rabbit Recombinant Antibody

Catalog Number: 98187-1-RR



## Basic Information

<b>Catalog Number:</b> 98187-1-RR	<b>GenBank Accession Number:</b> BC070256	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ug , 1000 µg/ml	<b>GeneID (NCBI):</b> 3458	<b>CloneNo.:</b> 241390B10
<b>Source:</b> Rabbit	<b>ENSEMBL Gene ID:</b> ENSG00000111537	
<b>Isotype:</b> IgG	<b>UNIPROT ID:</b> P01579	
	<b>Full Name:</b> IFN gamma	
	<b>Calculated MW:</b> 166 aa, 19 kDa	

## Applications

**Tested Applications:**  
FC (Intra)

**Species Specificity:**  
human

## 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

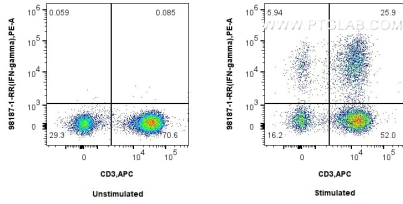
**Storage:**  
Store at 2 - 8°C. Stable for one year after shipment.

**Storage Buffer:**  
PBS with 0.09% sodium azide, pH 7.3.

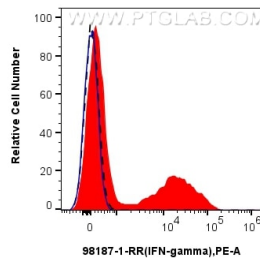
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)      E: proteintech@ptglab.com  
W: ptglab.com

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

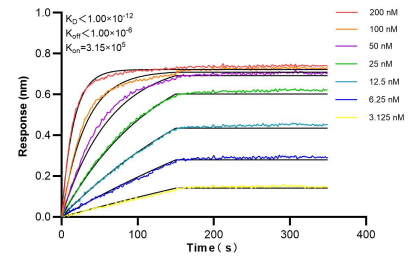
## Selected Validation Data



1x10<sup>6</sup> untreated or PMA and ionomycin treated human PBMCs were intracellularly stained with 0.25 ug Anti-Human IFN-gamma Rabbit Recombinant Antibody (98187-1-RR, Clone: 241390B10) and PE-Conjugated Goat Anti-Rabbit IgG(H+L). Cells were co-stained with APC Anti-Human CD3 (OKT3) Mouse IgG2a Recombinant Antibody (APC-65569, Clone: OKT3). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



1x10<sup>6</sup> PMA and ionomycin treated human PBMCs were intracellularly stained with 0.25 ug Anti-Human IFN-gamma Rabbit Recombinant Antibody (98187-1-RR, Clone: 241390B10) (red) or Rabbit IgG Isotype Control Recombinant Antibody (98136-1-RR, Clone: 240953C9) (blue), and PE-Conjugated Goat Anti-Rabbit IgG(H+L). 1x10<sup>6</sup> untreated human PBMCs were intracellularly stained with 0.25 ug Anti-Human IFN-gamma Rabbit Recombinant Antibody (98187-1-RR, Clone:



Bi-layer interferometry (BLI) kinetic assays of 98187-1-RR against Human IFN-gamma were performed. The affinity constant is below 1 pM.