

For Research Use Only

# Anti-Rat IFN-gamma Rabbit Recombinant Antibody



Catalog Number: 98001-1-RR

## Basic Information

<b>Catalog Number:</b> 98001-1-RR	<b>GenBank Accession Number:</b> NM_138880	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ug, 1000 µg/ml	<b>GeneID (NCBI):</b> 25712	<b>CloneNo.:</b> 6K20
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P01581	
<b>Isotype:</b> IgG	<b>Full Name:</b> interferon gamma	
	<b>Calculated MW:</b> 18 kDa	

## Applications

**Tested Applications:**  
FC (Intra)

**Species Specificity:**  
Rat

## Background Information

Interferon-gamma (IFN  $\gamma$ ), is a type II interferon that provides immunity against bacterial, viral and protozoan infections. 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.

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

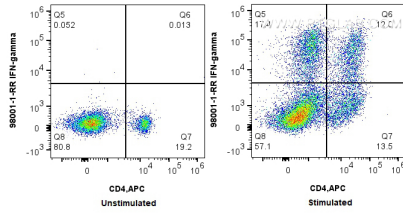
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

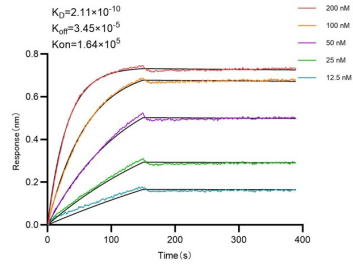
W: [ptgcn.com](http://ptgcn.com)

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## Selected Validation Data



1X10<sup>6</sup> unstimulated or ConA, PMA and ionomycin stimulated (in the presence of protein transport inhibitors) Wistar rat splenocytes were intracellularly stained with 0.25 ug Anti-Rat IFN-gamma (98001-1-RR, Clone: 6K20) and PE-conjugated Goat anti-Rabbit IgG (H+L) Secondary Antibody. Cells were co-stained with 0.25 ug APC Anti-Rat CD4 (OX-35) (APC-65179, Clone: OX-35). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-



Captured anti Rat IFN-gamma IgG(98001-1-RR) on protein A Biosensor, can bind Human NSD3 with an affinity constant of 2.11 nM as determined in a BLI assay by Gator Prime.