

For Research Use Only

# Anti-Rat IFN-gamma Rabbit Recombinant Antibody

Catalog Number: 98001-1-RR



## Basic Information

### Catalog Number:

98001-1-RR

### Size:

100ug, 1 mg/ml

### Source:

Rabbit

### Isotype:

IgG

### GenBank Accession Number:

NM\_138880

### GeneID (NCBI):

25712

### UNIPROT ID:

P01581

### Full Name:

interferon gamma

### Calculated MW:

18 kDa

### Purification Method:

Protein A purification

### CloneNo.:

6K20

## 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.

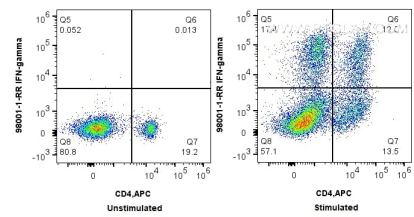
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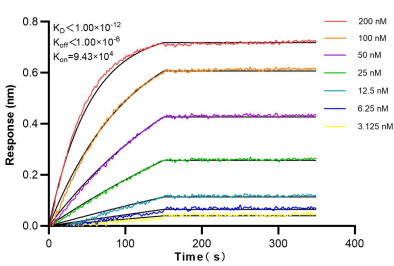
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Selected Validation Data



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



Biolayer interferometry (BLI) kinetic assays of 98001-1-RR against Rat IFN-gamma were performed. The affinity constant is below 1 pM.