

For Research Use Only

Anti-Rat IFN-gamma Rabbit Recombinant Antibody, PBS Only

Catalog Number: 98001-1-PBS



Basic Information

Catalog Number:

98001-1-PBS

Size:

1mg, 2mg/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 γ), 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 γ dimer binds to its cognate receptor which has two subunits: IFN- γ R1 which is the ligand-binding chain (α chain) and IFN- γ R2, the signal-transducing chain (β chain). Binding to the receptor activates the JAK/STAT pathway which in turn activates IFN γ responsive genes. While IFN γ 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 -80°C . Stable for one year after shipment.

Storage Buffer:

PBS only

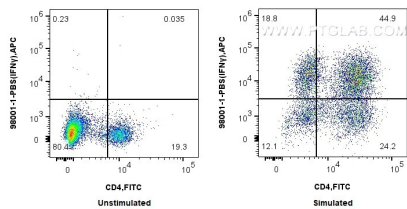
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free
in USA), or 1(312) 455-8498 (outside USA)

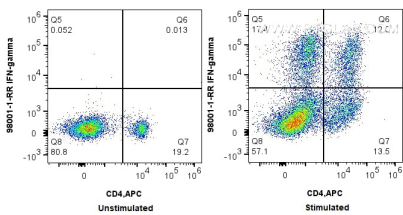
E: proteintech@ptglab.com
W: ptglab.com

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

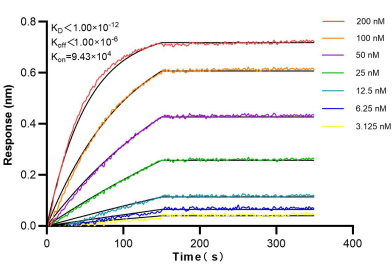
Selected Validation Data



1x10⁶ unstimulated or ConA, PMA and ionomycin stimulated (in the presence of protein transport inhibitors) rat splenocytes were intracellularly stained with 0.25 ug Anti-Rat IFN-gamma (98001-1-PBS, Clone: 6K20) and APC-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L). Cells were co-stained with 0.25 ug FITC Plus Anti-Rat CD4 (OX-35) (FITC-65179, Clone: OX-35). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



1x10⁶ 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.