

For Research Use Only

CoraLite® Plus 647 Anti-Rat IFN-gamma Rabbit Recombinant Antibody

Catalog Number: CL647-98001



Basic Information

Catalog Number:

CL647-98001

Concentration:

100ug, 500 ug/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

EG0400

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

Recommended Dilutions:

FC (Intra): 0.25 ug per 10⁶ cells in

100 µL suspension

Excitation/Emission maxima
wavelengths:

654 nm / 674 nm

Applications

Tested Applications:

FC (Intra)

Species Specificity:

rat

Positive Controls:

FC (Intra): ConA, PMA and ionomycin stimulated rat
splenocytes,

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 2-8°C. Avoid exposure to light. Stable for one year after shipment.

Storage Buffer:

PBS with 0.09% sodium azide, pH7.3

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

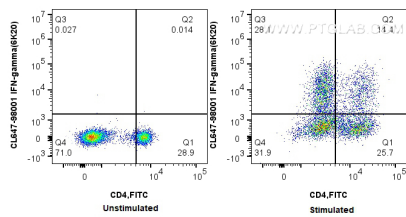
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Selected Validation Data



1x10⁶ unstimulated or ConA, PMA and ionomycin stimulated (in the presence of protein transport inhibitors) rat splenocytes cells were intracellularly stained with 0.25 ug CoraLite® Plus 647 Anti-Rat IFN-gamma (6K20) Rabbit Recombinant Antibody (CL647-98001, Clone:6K20), and 0.25 ug CoraLite® Plus 647-conjugated Rabbit IgG control Rabbit PolyAb (CL647-30000), and 0.25 ug FITC Plus Anti-Rat CD4 (OX-35) (FITC-65179, Clone: OX-35). Cells were fixed with 4% PFA and

