For Research Use Only

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

Catalog Number:CL647-98187

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Antibodies | ELISA kits | Proteins
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Basic Information

Catalog Number:
CL647-98187

Size:
100tests , 5 ul/test

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
EG0004

GenBank Accession Number:
BC070256

GeneID (NCBI):
3458

ENSEMBL Gene ID:
ENSG00000111537

UNIPROT ID:
P01579

Full Name:
IFN gamma

Calculated MW:
166 aa, 19 kDa

Purification Method:
Protein A purification

CloneNo.:
241390B10

Recommended Dilutions:
FC (Intra): 5 ul per 10^6 cells in a 100 µl suspension

Excitation/Emission maxima wavelengths:
654 nm / 674 nm

Applications

Tested Applications:
FC (Intra)

Species Specificity:
human

Positive Controls:

FC (Intra) : PMA and ionomycin treated human PBMCs,

Background Information

Interferon gamma (IFN γ), is a type II interferon that provides immunity against bacterial, viral and protozoan infections. In its active form, IFN γ 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 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 and 0.5% BSA, pH7.3

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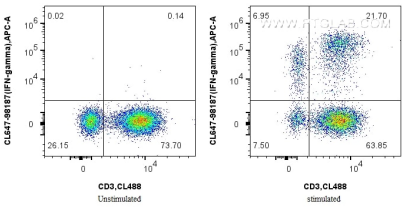
This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



1x10^6 untreated or PMA and ionomycin treated human PBMCs were intracellularly stained with 5ul CoraLite® Plus 647 Anti-Human IFN-gamma Rabbit RecAb (CL647-98187, Clone: 241390B10) . 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.