

For Research Use Only

# PE Anti-Mouse IFN-gamma (XMG1.2)

Catalog Number: PE-65153

6 Publications



## Basic Information

Catalog Number:

PE-65153

Size:

100ug, 0.2 mg/ml

Source:

Rat

Isotype:

IgG1, kappa

GenBank Accession Number:

BC119063

GeneID (NCBI):

15978

UNIPROT ID:

P01580

Full Name:

interferon gamma

Calculated MW:

17 kDa

Purification Method:

Affinity purification

CloneNo.:

XMG1.2

Recommended Dilutions:

FC (Intra): 0.5 ug per 10<sup>6</sup> cells in 100 µl suspension

Excitation/Emission maxima wavelengths:

496 nm, 565 nm / 578 nm

## Applications

Tested Applications:

FC (Intra)

Cited Applications:

FC (Intra)

Species Specificity:

mouse

Cited Species:

mouse

Positive Controls:

FC (Intra): mouse splenocytes,

## Background Information

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

## Notable Publications

Author	Pubmed ID	Journal	Application
Ping Yang	36184646	Nat Commun	FC (Intra)
Li Wu	35344716	Phytomedicine	FC (Intra)
Meng Wang	38416276	Hum Cell	FC (Intra)

## 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

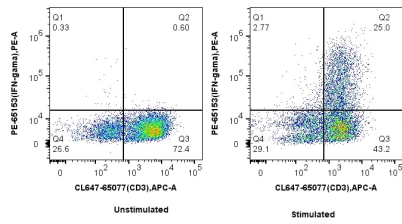
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## Selected Validation Data



1X10<sup>6</sup> unstimulated or PMA and Ionomycin stimulated (in the presence of Brefeldin A) C57BL/6 mouse splenocytes were surface stained with CoraLite® Plus 647 Anti-Mouse CD3 (CL647-65077, Clone: 17A2) and then fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C). Cells were then stained with 0.5 ug PE Anti-Mouse IFN gamma (PE-65153, Clone: XMG1.2).