

For Research Use Only

FITC Plus Anti-Mouse IFN gamma (XMG1.2)



Catalog Number: FITC-65153

1 Publications

Basic Information

Catalog Number:

FITC-65153

Size:

100ug, 0.5 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

Excitation/Emission maxima wavelengths:

495 nm / 524 nm

Applications

Tested Applications:

FC (Intra)

Cited Applications:

FC (Intra)

Species Specificity:

Mouse

Cited Species:

mouse

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)

Notable Publications

Author	Pubmed ID	Journal	Application
Zhuo Cheng	37544392	Acta Biomater	FC (Intra)

Storage

Storage:

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

Storage Buffer:

Phosphate based buffer with 0.09% sodium azide and 0.1% gelatin, pH 7.2.

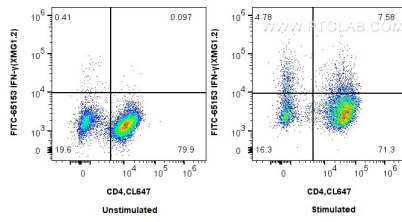
For technical support and original validation data for this product please contact:

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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



1X10⁶ unstimulated or PMA and ionomycin stimulated (in the presence of Brefeldin A and Monensin) Th1-polarized splenocytes were surface stained with CoraLite® Plus 647 Anti-Mouse CD4 (GK1.5) and then fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C). Cells were then stained with 0.5 ug FITC Plus Anti-Mouse IFN gamma (FITC-65153, Clone: XMG1.2).