

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

Recommended Dilutions:

FC (Intra): 0.25 ug per 10⁶ cells in 100 µl suspension

Excitation/Emission maxima wavelengths:

495 nm / 524 nm

Applications

Tested Applications:

FC (Intra)

Cited Applications:

FC (Intra)

Species Specificity:

mouse

Cited Species:

mouse

Positive Controls:

FC (Intra): PMA and ionomycin Stimulate C57BL/6 Th1-polarized splenocytes,

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:

PBS with 0.09% sodium azide, pH7.3

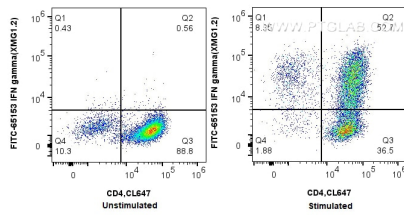
For technical support and original validation data for this product please contact:

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Selected Validation Data



1x10⁶ unstimulated or PMA and ionomycin stimulated C57BL/6 Th1-polarized splenocytes were intracellularly stained with 0.25 ug FITC Plus Anti-Mouse IFN-gamma (XMG1.2) (FITC-65153, Clone: XMG1.2) and 0.25 ug CoraLite® Plus 647 Anti-Mouse CD4 (GK1.5) (CL647-65104, Clone: GK1.5). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).