

# Anti-Mouse IFN gamma (XMG1.2)

Catalog Number: 65153-1-Ig

## Basic Information

|                                      |  |  |
|--------------------------------------|--|--|
| <b>Catalog Number:</b><br>65153-1-Ig | <b>GenBank Accession Number:</b><br>BC119063 | <b>Purification Method:</b><br>Affinity purification |
| <b>Size:</b><br>500ug, 0.5 mg/ml     | <b>GeneID (NCBI):</b><br>15978               | <b>CloneNo.:</b><br>XMG1.2                           |
| <b>Source:</b><br>Rat                | <b>Full Name:</b><br>interferon gamma        |  |
| <b>Isotype:</b><br>IgG1, kappa       | <b>Calculated MW:</b><br>17 kDa              |  |

## Applications

**Tested Applications:**  
FC (Intra)

**Species Specificity:**  
Mouse

## 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)

## Storage

**Storage:**  
Store at 2-8°C. Stable for one year after shipment.

**Storage Buffer:**  
PBS with 0.09% sodium azide.

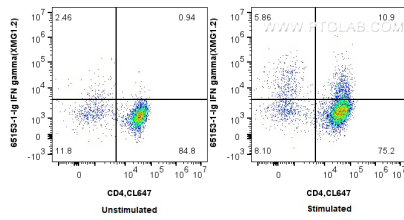
For technical support and original validation data for this product please contact:

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## Selected Validation Data



1x10<sup>6</sup> unstimulated or PMA and ionomycin stimulated C57BL/6 Th1-polarized splenocytes were intracellularly stained with 0.5 ug Anti-Mouse IFN gamma (65153-1-Ig, Clone: XMG1.2) and FITC anti-rat IgG1 Antibody. Cells were co-stained with 0.5 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).