For Research Use Only

CoraLite® Plus 647 Anti-Mouse IFN gamma (XMG1.2)

Catalog Number:CL647-65153

proteintech®
Antibodies | ELISA kits | Proteins
www.ptglab.com

Basic Information

Catalog Number:
CL647-65153

Size:
100ug, 500 μg/ml

Source:
Rat

Isotype:
IgG1, kappa

GenBank Accession Number:
BC119063

GeneID (NCBI):
15978

Full Name:
interferon gamma

Calculated MW:
17 kDa

Purification Method:
Affinity purification

CloneNo.:
XMG1.2

Excitation/Emission maxima wavelengths:
654 nm / 674 nm

Applications

Tested Applications:
FC (Intra)

Species Specificity:
Mouse

Background Information

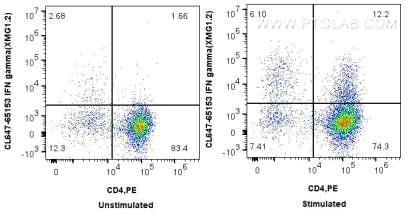
Interferon gamma (IFN γ), is a type II interferon that provides immunity against bacterial, viral and protozoan infections. In its active form, IFN γ is a glycosylated, non-covalently linked homodimer of 29-32 kDa subunits. It is produced by a number of immune cell types including natural killer cells, 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)

Storage

Storage:
Store at 2-8°C. Avoid exposure to light. Stable for one year after shipment.
Storage Buffer:
PBS with 0.1% sodium azide and 0.5% BSA, pH 7.3.

For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

Selected Validation Data



1x10^6 PMA and ionomycin Stimulate C57BL/6 Th1-polarized splenocytes were intracellularly stained with 0.13 ug CoraLite® Plus 647 Anti-Mouse IFN gamma (CL647-65153, Clone:XMG1.2), and 0.13 ug CoraLite® Plus 647 Rat IgG1 Isotype Control (HRPN) (CL647-65212, Clone: HRPN), and 0.13 ug PE Anti-Mouse CD4 (GK1.5) (PE-65104, Clone: GK1.5). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).