

For Research Use Only

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



Catalog Number: CL647-65153

Basic Information

Catalog Number: CL647-65153	GenBank Accession Number: BC119063	Purification Method: Affinity purification
Size: 100ug , 500 µg/ml	GeneID (NCBI): 15978	CloneNo.: XMG1.2
Source: Rat	Full Name: interferon gamma	Excitation/Emission maxima wavelengths: 654 nm / 674 nm
Isotype: IgG1, kappa	Calculated MW: 17 kDa	

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

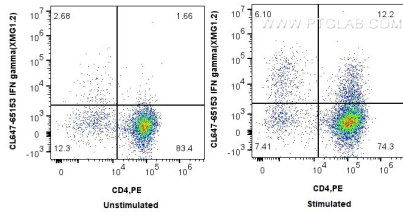
Storage:
Store at 2-8°C. Avoid exposure to light. Stable for one year after shipment.

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: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA) E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



1x10⁶ 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).