

For Research Use Only

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

Catalog Number: CL647-65153

1 Publications



Basic Information

Catalog Number:

CL647-65153

Concentration:

100ug, 500 ug/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)

Cited Applications:

FC

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)

Notable Publications

Author	Pubmed ID	Journal	Application
Pu Wang	39859511	Int J Mol Sci	FC

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 and 0.5% BSA, pH7.3

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

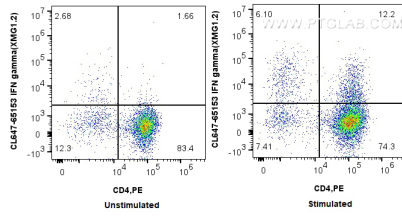
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W: ptgcn.com

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).