

For Research Use Only

CoraLite® Plus 488 Anti-Mouse IFN gamma (XMG1.2)



Catalog Number: CL488-65153

Basic Information

Catalog Number: CL488-65153	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: 493 nm / 522 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:

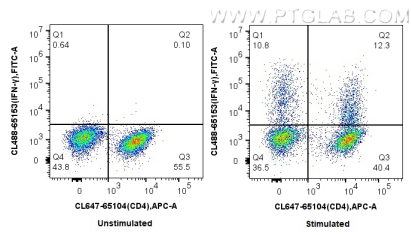
T: 4006900926

E: Proteintech-CN@ptglab.com

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 unstimulated or PMA and Ionomycin stimulated (in the presence of Brefeldin A) C57BL/6 mouse splenocytes were surface stained with CoraLite® Plus 647 Anti-Mouse CD4 (CL647-65104, Clone: GK1.5) and then fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C). Cells were then stained with 0.25 ug CoraLite® Plus 488 Anti-Mouse IFN gamma (CL488-65153, Clone: XMG1.2).