CoraLite® Plus 488 Anti-Mouse IFN-gamma Rabbit Recombinant Antibody

Catalog Number:CL488-98045

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Antibodies | ELISA kits | Proteins
Uni-rAb
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Basic Information

Catalog Number:	CL488-98045
Size:	100ug, 500 ug/ml
Source:	Rabbit
Isotype:	IgG

GenBank Accession Number:	BC119063
GeneID (NCBI):	15978
UNIPROT ID:	P01580
Full Name:	interferon gamma
Calculated MW:	17 kDa

Purification Method:	Protein A purification
CloneNo.:	240262C9
Excitation/Emission maxima wavelengths:	493 nm / 522 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)
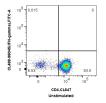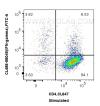
Storage

Storage:
Store at 2-8℃. Avoid exposure to light. Stable for one year after shipment.
Storage Buffer:
PBS with 0.09% sodium azide.

Selected Validation Data

1x10^6 untreated or PMA, Ionomycin and Brefeldin A treated C57BL/6 Th1-polarized splenocytes were intracellularly stained with 0.25 ug CoraLite® Plus 488 Anti-Mouse IFN-gamma Rabbit Recombinant Antibody (CL488-98045, Clone: 240262C9). Cells were co-stained with CoraLite® Plus 647 Anti-Mouse CD4. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).