

For Research Use Only

# NeutraKine® IFN Gamma Monoclonal antibody



Catalog Number: 69007-1-Ig

## Basic Information

<b>Catalog Number:</b> 69007-1-Ig	<b>GenBank Accession Number:</b> GeneID (NCBI): 3458	<b>Purification Method:</b> Protein G purification
<b>Size:</b> 100ug	<b>Full Name:</b> IFN gamma	<b>CloneNo.:</b> 1E10G7
<b>Source:</b> Mouse		
<b>Isotype:</b> IgG1		
<b>Immunogen Catalog Number:</b> HZ-1301		

## Applications

**Tested Applications:**  
Neutralization, ELISA

**Species Specificity:**  
Human

## Background Information

Interferon gamma (IFNG) is a soluble cytokine that is the only member of the type II class of interferons. It is secreted by Th1 cells, cytotoxic T cells and NK cells. The cytokine is associated with antiviral, immunoregulatory and anti-tumor properties and is a potent activator of macrophages. It plays crucial roles in pathogen clearance. Aberrant IFNG expression is associated with a number of autoinflammatory and autoimmune diseases. It has been identified in many studies as a biomarker for pleural tuberculosis (TB). Mutations in this gene are associated with aplastic anemia.

This antibody can be used to neutralize the bioactivity of Interferon gamma.

## Storage

**Storage:**  
Lyophilized antibodies are stable for 1 year from the date of receipt if stored between (-20°C) and (-80°C). Upon reconstitution we recommend that the solution can be stored at (4°C) for short term or at (-20°C) to (-80°C) for long term. Repeated freeze thaw cycles should be avoided with reconstituted products.

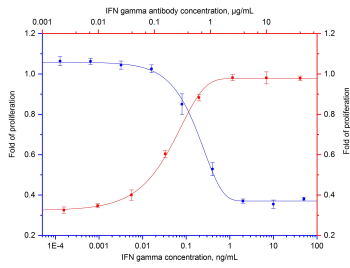
**Storage Buffer:**  
Sterile PBS.

Aliquoting is unnecessary for -20°C storage

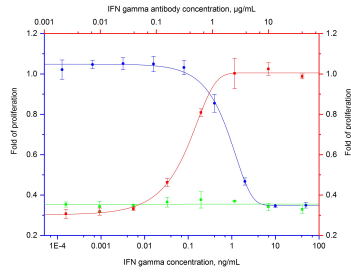
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)      E: proteintech@ptglab.com  
W: ptglab.com

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

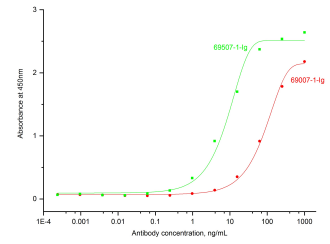
## Selected Validation Data



Recombinant human IFN-gamma (Cat.NO. HZ-1301) inhibits HT-29 cell line (human colorectal adenocarcinoma cell line) proliferation in the presence of 0.5 ng/mL TNF alpha in a dose-dependent manner (blue curve, refer to bottom X-left Y axis). The activity of human IFN-gamma (2ng/mL HZ-1301 axis) is neutralized by mouse anti-human IFN-gamma monoclonal antibody 69007-1-Ig at serial dose (red curve, refer to top X-right Y axis). The ND50 is typically 100-



Recombinant human IFN-gamma (Cat.NO. HZ-1301) inhibits HT-29 cell line (human colorectal adenocarcinoma cell line) proliferation in the presence of 0.5 ng/mL TNF alpha in a dose-dependent manner (blue curve, refer to bottom X-left Y axis). The activity of human IFN-gamma (5 ng/mL HZ-1301 axis) is neutralized by mouse anti-human IFN-gamma monoclonal antibody 69007-1-Ig at serial dose (red curve, refer to top X-right Y axis). The ND50 is typically 100-



Indirect ELISA was carried out by coating recombinant Human IFN gamma (Cat.NO. HZ-1301) at 70 ng/well followed by blocking and adding serial diluted IFN gamma antibody 69007-1-Ig and 69507-1-Ig respectively. Signal was developed with TMB and stopped by H<sub>2</sub>SO<sub>4</sub>. Signal strength was measured by absorbance at 450 nm.