For Research Use Only

NeutraKine® IFN-gamma Mouse McAb

Catalog Number:69007-1-Ig 5 Publications

proteintech®
Antibodies | ELISA kits | Proteins
www.ptglab.com

Basic Information

Catalog Number:
69007-1-Ig

Source:
Mouse

Isotype:
IgG1

Immunogen Catalog Number:
HZ-1301

GenBank Accession Number:

GeneID (NCBI):
3458

ENSEMBL Gene ID:
ENSG00000111537

UNIPROT ID:
P01579

Full Name:
IFN gamma

Purification Method:
Protein G purification

CloneNo.:
1E10G7

Recommended Dilutions:
Neutralization: 1:10-1:100
ELISA: 1:10-1:100

Applications

Tested Applications:
Neutralization, ELISA

Cited Applications:
Neutralization, Cell treatment

Species Specificity:
human

Cited Species:
human

Positive Controls:

Neutralization : TNF alpha treated HT-29 cells, HT-29 cell

ELISA : Recombinant protein,

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.

Notable Publications

Author	Pubmed ID	Journal	Application
Nathan A. Bracey	42241286	Cell Rep	
Nathan A. Bracey	41993471	bioRxiv	Neutralization
Xuefang Peng	41260206	Cell Rep Med	Cell treatment

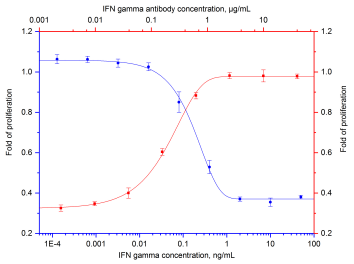
Storage

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, pH7.4
Aliquoting is unnecessary for -20°C storage

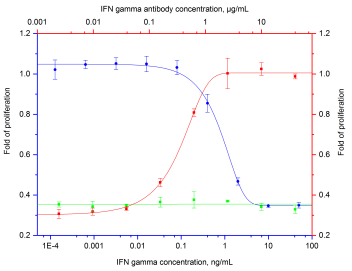
For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

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

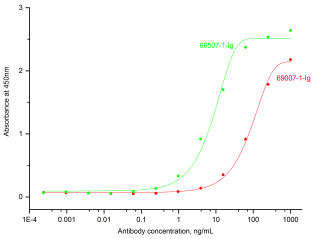
Selected Validation Data



Recombinant human IFN-gamma (Cat.NO. HZ-1301) inhibits HT-29 cell line (human colorectal adenocarcinoma cell line) proliferation in the prescence 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 prescence 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 H2SO4. Signal strength was measured by absorbance at 450 nm.