For Research Use Only

NeutraKine® IFN Alpha 2A Monoclonal antibody, PBS Only (Capture)

Catalog Number:69008-1-PBS

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

Basic Information

Catalog Number:
69008-1-PBS

Concentration:
1 mg/ml

Source:
Mouse

Isotype:
IgG1

Immunogen Catalog Number:
HZ-1066

GenBank Accession Number:

GeneID (NCBI):
3440

Full Name:
interferon, alpha 2

Purification Method:
Protein G purification

CloneNo.:
2H8G1

Applications

Tested Applications:
Neutralization, Sandwich ELISA, Indirect ELISA, Sample test

Species Specificity:
human

Background Information

Interferon alpha 2 is a type 1 interferon. Interferon alpha 2 is secreted by virus-infected cells and inhibits other cells from further infection. Recombinant human interferon alpha 2 has been approved for therapeutic application in a range of human oncological and viral diseases. Three Interferon alpha 2 subvariants (2A, 2B, 2C) differ by only one or two amino acids at positions 23 and/or 34 of the mature protein (PMID: 25982860; 10672347; 1694761).

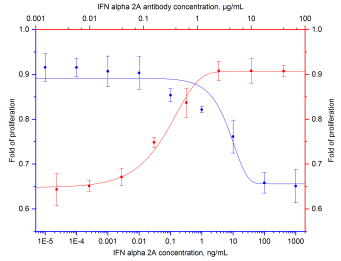
This antibody can be used to neutralize the bioactivity of Interferon alpha 2.

Storage

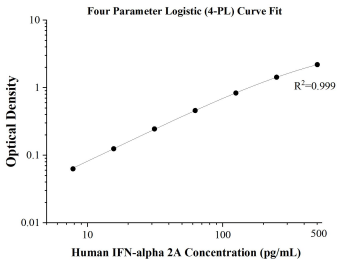
Storage:
Store at -80°C.
The product is shipped with ice packs. Upon receipt, store it immediately at -80°C
Storage Buffer:
PBS only, pH7.3

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

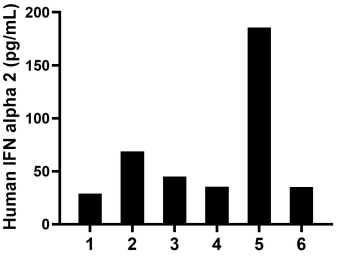
Selected Validation Data



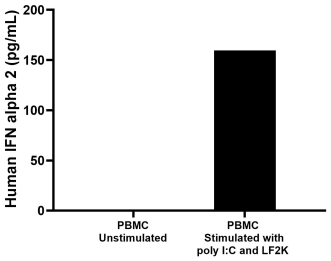
Recombinant human IFN alpha 2A (Cat.NO. HZ-1066) inhibits the growth of TF-1 cell line (human erythroleukemic cell line) in a dose-dependent manner (blue curve, refer to bottom X-left Y). The activity of human IFN alpha 2A (100 ng/mL HZ-1066) is neutralized by mouse anti-human IFN alpha 2A monoclonal antibody 69008-1-Ig at serial dose (red curve, refer to top X-right Y). The ND50 is typically 300-500 ng/mL. This data was developed using the same antibody clone



Sandwich ELISA standard curve of MP50005-1, IFNA2 Monoclonal Matched Antibody Pair, PBS Only. Capture antibody: 69008-1-PBS. Detection antibody: 68665-1-PBS. Standard: HZ-1066. Range: 7.8-500 pg/mL.



Serum of six individual healthy human donors was measured. The IFN alpha 2 concentration of detected samples was determined to be 66.5 pg/mL with a range of 29.0-185.5 pg/mL.



Human peripheral blood mononuclear cells (PBMC) was cultured in RPMI 1640 supplemented with 10% fetal bovine serum, 50 μM β-mercaptoethanol, 2 mM L-glutamine, and 100 μg/mL of streptomycin sulfate. The cells were unstimulated or stimulated with 10 μg/mL poly I:C and Lipofectamine 2000 (LF2K) for 1 day. An aliquot of the cell culture supernatant was removed, the mean IFN alpha 2 concentration was undetectable in unstimulated PBMC