

For Research Use Only

NeutraKine® IL-10 Monoclonal antibody, PBS Only (Capture)

Catalog Number: 69018-1-PBS



Basic Information

Catalog Number:

69018-1-PBS

Size:

1mg/ml

Source:

Mouse

Isotype:

IgG1

Immunogen Catalog Number:

HZ-1145

GenBank Accession Number:

GeneID (NCBI):

3586

Full Name:

interleukin 10

Purification Method:

Protein A purification

CloneNo.:

1E4F5

Applications

Tested Applications:

IHC, Neutralization, ELISA, Sandwich ELISA, Indirect ELISA

Species Specificity:

human

Background Information

Interleukin (IL)-10 is an anti-inflammatory cytokine, produced by T helper (Th) cells, macrophages, monocytes, and B cells, that plays a crucial role in preventing inflammatory and autoimmune pathologies. It downregulates the expression of Th1 cytokines, MHC class II antigens, and co-stimulatory molecules on macrophages. It also enhances B cell survival, proliferation, and antibody production. IL-10 can block NF- κ B activity, and is involved in the regulation of the JAK-STAT signaling pathway. IL-10, along with its receptors, describes an important role in pathogenesis of various diseases, including infectious, inflammatory, autoimmune diseases. IL-10 mutations are associated with an increased susceptibility to HIV-1 infection and rheumatoid arthritis.

This antibody can be used to neutralize the bioactivity of IL-10.

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

For technical support and original validation data for this product please contact:

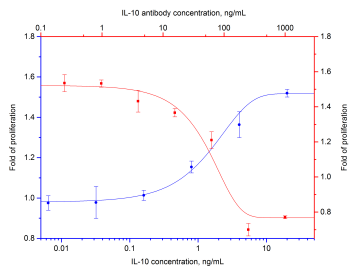
T: 4006900926

E: Proteintech-CN@ptglab.com

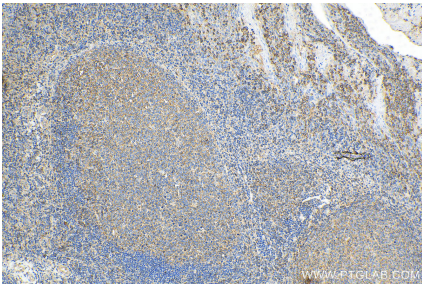
W: ptgcn.com

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

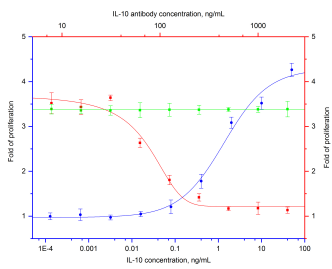
Selected Validation Data



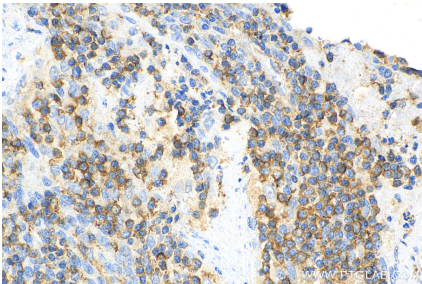
Recombinant human IL-10 (Cat.NO. HZ-1145) stimulates proliferation of MC/9 cells (mouse mast cell line) in a dose-dependent manner (blue curve, refer to bottom X-left Y). The activity of human IL-10 (10 ng/mL) is neutralized by mouse anti-human IL-10 monoclonal antibody 69018-1-Ig at serial dose (red curve, refer to top X-right Y). The ND50 is typically 50-200 ng/mL. This data was developed using the same antibody clone with 69018-1-PBS in a different storage buffer



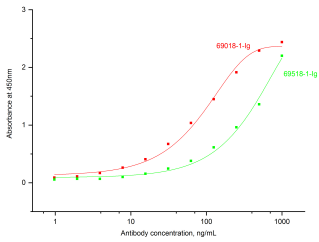
Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 69018-1-Ig (NeutraKine® IL-10 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 69018-1-PBS in a different storage buffer formulation.



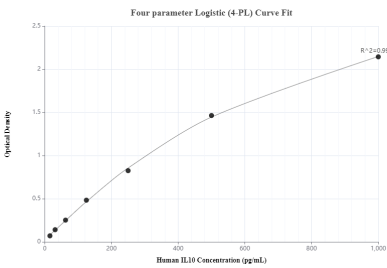
Recombinant human IL-10 (Cat.NO. HZ-1145) stimulates proliferation of MC/9 cells (mouse mast cell line) in a dose-dependent manner (blue curve, refer to bottom X-left Y axis). The activity of human IL-10 (10 ng/mL) is neutralized by mouse anti-human IL-10 monoclonal antibody 69018-1-Ig at serial dose (red curve, refer to top X-right Y axis). The ND50 is typically 50-200 ng/mL. The NeutraControl mouse anti-human IL-10 monoclonal antibody 69518-1-Ig could



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 69018-1-Ig (NeutraKine® IL-10 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 69018-1-PBS in a different storage buffer formulation.



Indirect ELISA was carried out by coating recombinant Human IL-10 (Cat.NO. HZ-1145) at 70 ng/well followed by blocking and adding serial diluted IL-10 antibody 69018-1-Ig and 69518-1-Ig respectively. Signal was developed with TMB and stopped by H2SO4. Signal strength was measured by absorbance at 450 nm. This data was developed using the same antibody clone with 69018-1-PBS in a different storage buffer formulation.



Sandwich ELISA standard curve of MP50035-1, IL-10 Monoclonal Matched Antibody Pair, PBS Only. Capture antibody: 69018-1-PBS. Detection antibody: 69018-2-PBS. Standard: HZ-1145. Range: 15.6-1000 pg/mL