

For Research Use Only

# NeutraKine® IL-10 Mouse McAb

Catalog Number: 69018-1-Ig **4 Publications**



## Basic Information

Catalog Number:

69018-1-Ig

Size:

100ug

Source:

Mouse

Isotype:

IgG1

Immunogen Catalog Number:

HZ-1145

GenBank Accession Number:

GeneID (NCBI):

3586

Full Name:

interleukin 10

Purification Method:

Protein G purification

CloneNo.:

1E4F5

Recommended Dilutions:

Neutralization: 1:10-1:100

IHC: 1:50-1:500

ELISA: 1:10-1:100

## Applications

Tested Applications:

IHC, Neutralization, ELISA

Cited Applications:

IHC, IF, Neutralization

Species Specificity:

human

Cited Species:

human, mouse

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

Positive Controls:

Neutralization : MC/9 cells,

IHC : human tonsillitis tissue, human lung cancer tissue

ELISA : Recombinant protein,

## 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- $\kappa$ 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.

## Notable Publications

Author	Pubmed ID	Journal	Application
Balun Li	34722505	Front Cell Dev Biol	IHC
Rui Bai	34131401	Int J Biol Sci	IHC
Xiaoli Wei	39305895	Cell Metab	

## 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

**\*\*\* 20ul sizes contain 0.1% BSA**

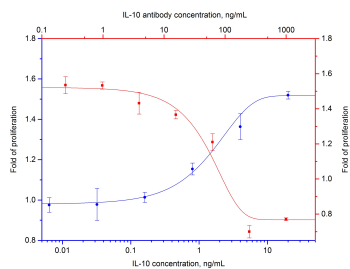
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

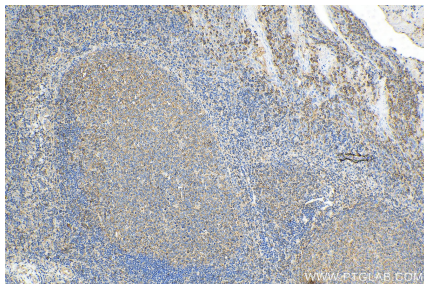
E: proteintech@ptglab.com  
W: ptglab.com

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

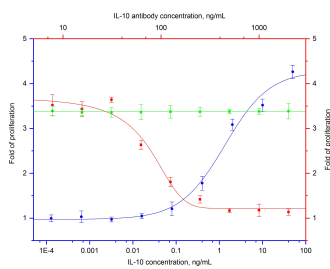
## Selected Validation Data



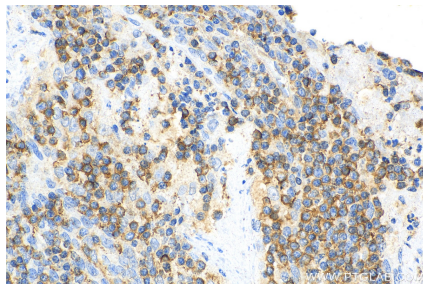
Recombinant human IL-10 (Cat.NO. HZ-1145) stimulates proliferation of MC/9 cells (mouse mast cell line) in a dose-dependent manner (blue curve, refer to bottom X-left Y). The activity of human IL-10 (10 ng/mL) is neutralized by mouse anti-human IL-10 monoclonal antibody 69018-1-Ig at serial dose (red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



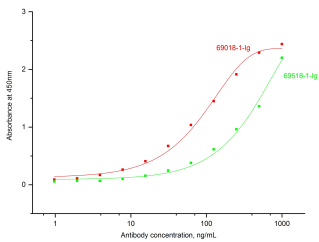
Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 69018-1-Ig (NeutraKine® IL-10 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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).



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.