

For Research Use Only

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

Catalog Number: 69018-1-PBS



Basic Information

Catalog Number: 69018-1-PBS	GenBank Accession Number: GeneID (NCBI): 3586	Purification Method: Protein A purification
Size: 100ug, Concentration: 1mg/ml by Nanodrop;	Full Name: interleukin 10	CloneNo.: 1E4F5
Source: Mouse		
Isotype: IgG1		
Immunogen Catalog Number: HZ-1145		

Applications

Tested Applications:
IHC, Neutralization, ELISA, Sandwich ELISA, Indirect ELISA

Species Specificity:
human

Product Information

69018-1-PBS targets NeutraKine® IL-10 as part of a matched antibody pair:

MP50035-1: 69018-1-PBS capture and 69018-2-PBS detection (validated in Sandwich ELISA)

Unconjugated mouse monoclonal antibody pair in PBS only (BSA and azide free) storage buffer at a concentration of 1 mg/mL, ready for conjugation.

This conjugation ready format makes antibodies ideal for use in many applications including: ELISAs, multiplex assays requiring matched pairs, mass cytometry, and multiplex imaging applications. Antibody use should be optimized by the end user for each application and assay.

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-κB 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

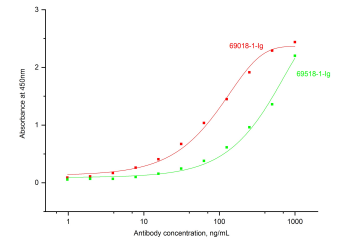
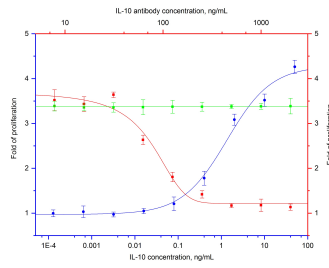
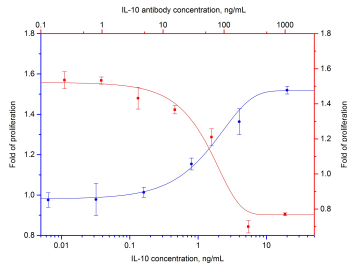
Storage:
Store at -80°C.

Storage Buffer:
PBS Only

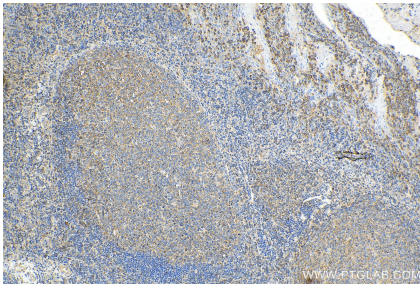
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA) E: proteintech@ptglab.com W: ptglab.com

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

Selected Validation Data

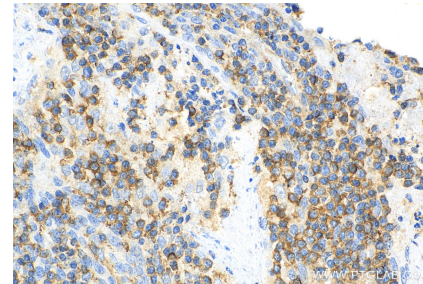


Recombinant human IL-10 (Cat.NO. HZ-1145) stimulates proliferation of MC/9 cells (mouse mast cell line) in a dose-dependent manner (blue curve, refer to bottom X-left Y). The activity of human IL-10 (10 ng/mL) is neutralized by mouse anti-human IL-10 monoclonal antibody 69018-1-Ig at serial dose (red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



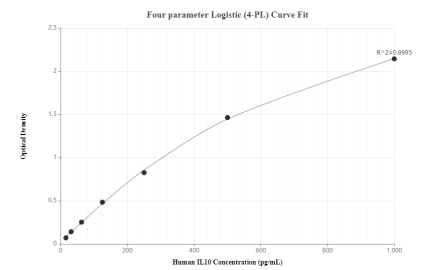
Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 69018-1-Ig (NeutraKine® IL-10 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 69018-1-PBS 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 69518-1-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.