

NeutraKine® IL-10 Monoclonal antibody

 Catalog Number: 69018-1-Ig 2 Publications

Basic Information

Catalog Number: 69018-1-Ig	GenBank Accession Number: GeneID (NCBI): 3586	Purification Method: Protein G purification
Size: Source: Mouse	Full Name: interleukin 10	CloneNo.: 1E4F5
Isotype: IgG1		Recommended Dilutions: IHC 1:50-1:500
Immunogen Catalog Number: HZ-1145		

Applications

Tested Applications: IHC, Neutralization, ELISA	Positive Controls: IHC : human tonsillitis tissue, human lung cancer tissue
Cited Applications: IHC	
Species Specificity: Human	
Cited Species: mouse	
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	

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.

Notable Publications

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

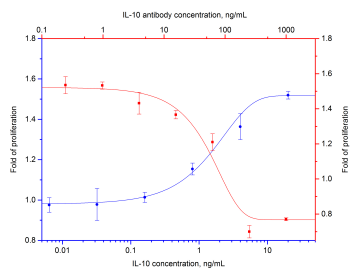
Storage

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.

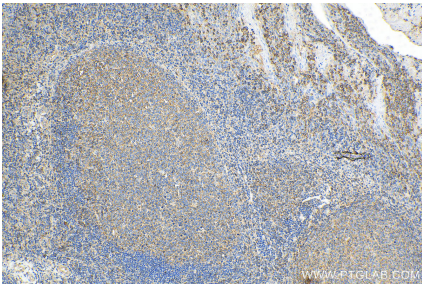
Storage Buffer:
Sterile PBS.

Aliquoting is unnecessary for -20°C storage

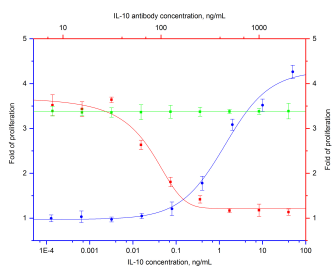
Selected Validation Data



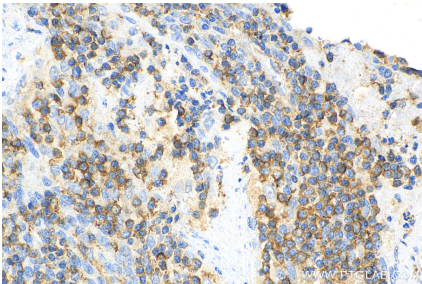
Recombinant human IL-10 (Cat.NO. HZ-1145) stimulates proliferation of MC/9 cells (mouse mast cell line) in a dose-dependent manner (blue curve, refer to bottom X-left Y). The activity of human IL-10 (10 ng/mL) is neutralized by mouse anti-human IL-10 monoclonal antibody 69018-1-Ig at serial dose (red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



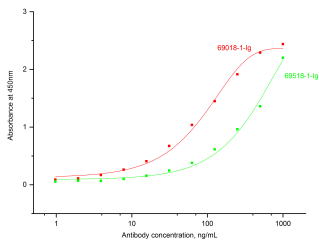
Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 69018-1-Ig (NeutraKine® IL-10 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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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.