

For Research Use Only

NeutraControl IL-10 Monoclonal antibody



Catalog Number: 69518-1-Ig **1 Publications**

Basic Information

Catalog Number: 69518-1-Ig	GenBank Accession Number: GeneID (NCBI): 3586	Purification Method: Protein G purification
Size: 100ug	Full Name: interleukin 10	CloneNo.: 6C6E6
Source: Mouse		
Isotype: IgG1		
Immunogen Catalog Number: HZ-1145		

Applications

Tested Applications:
ELISA, Non-Neutralization

Cited Applications:
WB

Species Specificity:
Human

Cited Species:
mouse

Background Information

The human IL10 gene is 4.7 kb in size and is located on the long arm of chromosome 1. It contains five exons. Biologically functional IL-10 exists in the form of a 36 kDa homodimer composed of two non-covalently bonded mono-mers each with 160 amino acids length. 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 is a neutralizing control antibody for IL-10, the immunogen is the same as Neutrakine 69018-1-Ig but could not neutralize human IL-10.

Notable Publications

Author	Pubmed ID	Journal	Application
Yao Liao	38129877	Cell Commun Signal	WB

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.

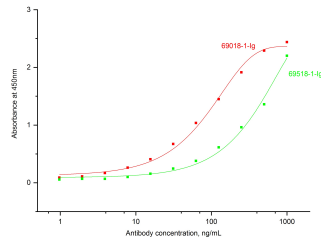
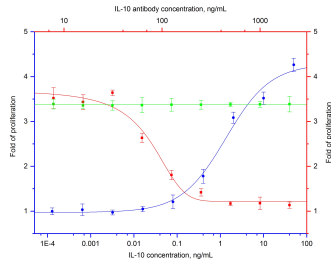
Aliquoting is unnecessary for -20°C storage

*** 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)
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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 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

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.