

NeutraControl IL-10 Monoclonal antibody, PBS Only

Catalog Number: 69518-1-PBS

Basic Information

Catalog Number:

69518-1-PBS

Concentration:

1 mg/ml

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.:

6C6E6

Applications

Tested Applications:

ELISA, Non-Neutralization

Species Specificity:

human

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 monomers 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.

Storage

Storage:

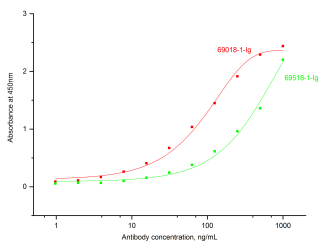
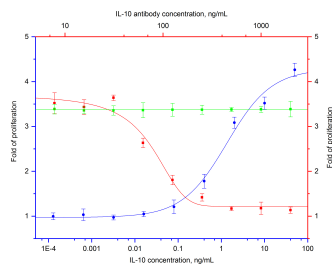
Store at -80°C.

The product is shipped with ice packs. Upon receipt, store it immediately at -80°C

Storage Buffer:

PBS Only, pH7.4

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. This data was developed using the same antibody clone with 69518-1-PBS in a different storage buffer formulation.