

For Research Use Only

NeutraControl IL-23 p19 Monoclonal antibody



Catalog Number: 69506-1-Ig

Basic Information

Catalog Number: 69506-1-Ig	GenBank Accession Number: GeneID (NCBI): 51561	Purification Method: Protein A purification
Size: 100ug	Full Name: interleukin 23, alpha subunit p19	CloneNo.: 1A9B9
Source: Mouse		
Isotype: IgG2a		
Immunogen Catalog Number: HZ-1254		

Applications

Tested Applications:
Non-Neutralization, ELISA

Species Specificity:
Human, mouse

Background Information

Interleukin 23 (IL-23) is a member of the IL12 cytokine family and composed of two subunits, IL12p40 and IL23p19. It is produced by antigen presenting cells and has been shown to promote the production and survival of a distinct lineage of T-cells called TH17 cells. A functional receptor for IL-23 (the IL-23 receptor) has been identified and is composed of IL-12R β 1 and IL-23R. IL-23 is expressed chiefly by the macrophages and DCs. The IL-23R is found on memory T cells, NKT cells, macrophages, DCs, and naive T cells upon activation by TGF- β and IL-6. The main biological effects of IL-23 identified initially are stimulation of antigen presentation by DCs, T cell differentiation to Th17 cells, and production of interferon- γ (IFN- γ). IL-23 acts also as an end-stage effector cytokine through direct action on macrophages (PMID: 16393998;15657292;12023369;12610626).

This antibody is a neutralizing control antibody for IL-23, the immunogen is the same as Neutrakine 69006-1-Ig but could not neutralize human IL-23.

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.

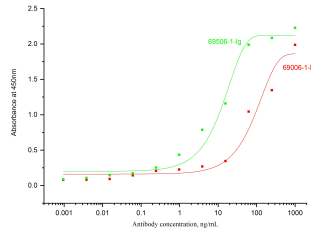
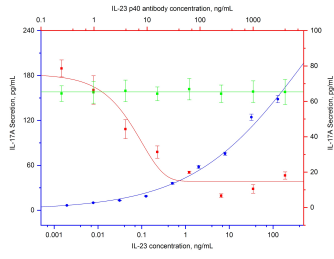
Aliquoting is unnecessary for -20°C storage

*** 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) 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-23 (Cat.NO. HZ-1254) induces in vitro cultured mouse splenocytes to secrete IL-17A in a dose-dependent manner (blue curve, refer to bottom X-left Y axis). The activity of human IL-23 (4 ng/mL HZ-1254) is neutralized by mouse anti-human IL-23 p19 monoclonal antibody 69006-1-Ig at serial dose (red curve, refer to top X-right Y). The ND50 is typically 8-30 ng/mL. The NeutraControl mouse anti-human IL-23 p19



Indirect ELISA was carried out by coating recombinant Human IL-23 (Cat.NO. HZ-1254) at 70 ng/well followed by blocking and adding serial diluted IL-23 antibody 69006-1-Ig and 69506-1-Ig respectively. Signal was developed with TMB and stopped by H2SO4. Signal strength was measured by absorbance at 450 nm.