

NeutraControl IL-27 Monoclonal antibody

Catalog Number: **69534-1-Ig**

Basic Information

Catalog Number: 69534-1-Ig	GenBank Accession Number: GeneID (NCBI): 246778	Purification Method: Protein A purification
Size: Source: Mouse	UNIPROT ID: Q8NEV9	CloneNo.: 2F8E2
Isotype: IgG2a	Full Name: interleukin 27	
Immunogen Catalog Number: HZ-1275		

Applications

Tested Applications:
ELISA, Non-Neutralization

Species Specificity:
Human

Background Information

IL-27 is a heterodimeric cytokine composed of two subunits: IL-27a and IL-27b. IL-27 acts on various cell types, including T cells, B cells, macrophages, dendritic cells, natural killer (NK) cells and non-hematopoietic cells. IL-27 plays a critical role in the early regulation of T helper type 1 initiation, and enhances proliferation of naive CD4⁺T cells and naive B cells. It, however, also exerts anti-inflammatory functions by inhibiting the development of Th17 cells and inducing IL-10 producing type 1 regulatory T cells. IL-27 is a potentially promising cytokine for therapeutic approaches on various human diseases.

This antibody is a neutralizing control antibody for IL-27, the immunogen is the same as Neutrakine 69034-1-Ig but could not neutralize human IL-27.

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

For technical support and original validation data for this product please contact:

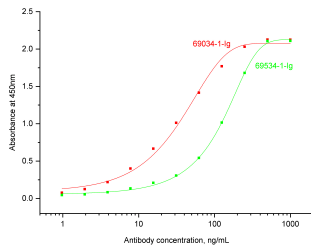
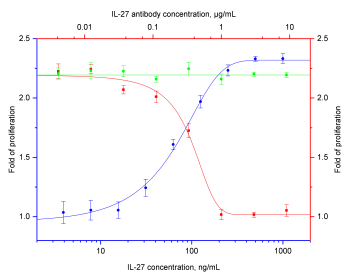
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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



Recombinant human IL-27 (Cat.NO. HZ-1275) stimulates proliferation of OCI-AML5 cells in a dose-dependent manner (blue curve, refer to bottom X-left Y). The activity of human IL-27 (250 ng/mL) is neutralized by mouse anti-human IL-27 monoclonal antibody 69034-1-Ig at serial dose (red curve, refer to top X-right Y). The ND_{50} is typically $0.4-1 \mu\text{g/mL}$. The control mouse anti-human IL-27 monoclonal antibody 69534-1-Ig could recognize human IL-27, but could not neutralize human IL-27 at

Indirect ELISA was carried out by coating recombinant Human IL-27 (Cat.NO. HZ-1275) at 70 ng/well followed by blocking and adding serial diluted IL-27 antibody 69034-1-Ig and 69534-1-Ig respectively. Signal was developed with TMB and stopped by H_2SO_4 . Signal strength was measured by absorbance at 450 nm.