

For Research Use Only

# NeutraControl IL-27 Monoclonal antibody



Catalog Number: 69534-1-Ig

## Basic Information

Catalog Number:

69534-1-Ig

Size:

Source:

Mouse

Isotype:

IgG2a

Immunogen Catalog Number:

HZ-1275

GenBank Accession Number:

GeneID (NCBI):

246778

UNIPROT ID:

Q8NEV9

Full Name:

interleukin 27

Purification Method:

Protein A purification

CloneNo.:

2F8E2

## 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:

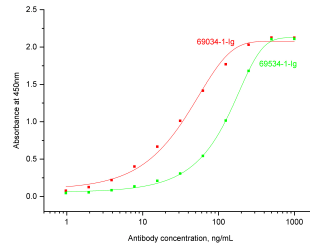
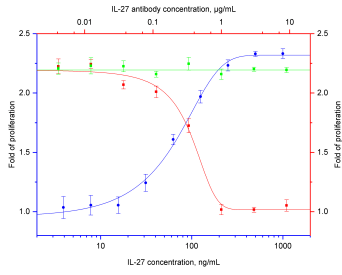
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## Selected Validation Data



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 ND50 is typically 0.4-1  $\mu$ 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 H2SO4. Signal strength was measured by absorbance at 450 nm.