

NeutraKine®IL-12 p35 Monoclonal antibody

Catalog Number: 69029-1-Ig

Basic Information

Catalog Number:

69029-1-Ig

Size:

Source:

Mouse

Isotype:

IgG2b

Immunogen Catalog Number:

HZ-1256

GenBank Accession Number:

GeneID (NCBI):

3592

Full Name:

interleukin 12A (natural killer cell
stimulatory factor 1, cytotoxic
lymphocyte maturation factor 1, p35)

Purification Method:

Protein A purification

CloneNo.:

2G11G6

Applications

Tested Applications:

Neutralization, ELISA

Species Specificity:

Human

Background Information

IL-12 p35 is a subunit of a cytokine that acts on T and natural killer cells, and has a broad array of biological activities. The cytokine is a disulfide-linked heterodimer composed of the 35-kD subunit encoded by this gene, and a 40-kD subunit that is a member of the cytokine receptor family. This cytokine is required for the T-cell-independent induction of IFN-gamma and is important for the differentiation of both Th1 and Th2 cells. The responses of lymphocytes to this cytokine are mediated by the activator of transcription protein STAT4. Nitric oxide synthase 2A (NOS2A/NOS2) is found to be required for the signaling process of this cytokine in innate immunity.

This antibody can be used to neutralize the bioactivity of IL-12 p35.

Storage

Storage:

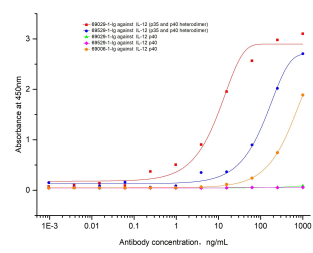
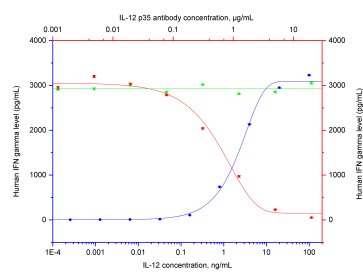
Lyophilized antibodies are stable for 1 year from the date of receipt if stored between (-20°C) and (-80°C). Upon reconstitution we recommend that the solution can be stored at (4°C) for short term or at (-20°C) to (-80°C) for long term. Repeated freeze thaw cycles should be avoided with reconstituted products.

Storage Buffer:

Sterile PBS.

Aliquoting is unnecessary for -20°C storage

Selected Validation Data



Recombinant human IL-12 (Cat.NO. HZ-1256) stimulates NK-92 cells produce IFN gamma in a dose dependent manner (blue curve, refer to bottom X-Left Y axis). The activity of human IL-12 (10 ng/mL HZ-1256) is neutralized by mouse anti-human IL-12 p35 monoclonal antibody 69029-1-Ig (red curve, refer to top X-right Y axis). The ND50 is typically 0.5-1 µg/mL. The control mouse anti-human IL-12 p35 monoclonal antibody 69529-1-Ig could recognize human IL-12, but could not

Indirect ELISA was carried out by coating recombinant Human IL-12 (Cat.NO. HZ-1256) and IL-12 p40 (Cat.NO. HZ-1321) respectively at 70 ng/well followed by blocking and adding serial diluted 69029-1-Ig, 69529-1-Ig and 69006-1-Ig respectively. HRP-goat anti-mouse was used for detection. Signal was developed with TMB and stopped by H2SO4. Signal strength was measured by absorbance at 450 nm. The result suggests that 69029-1-Ig and 69529-1-Ig only recognize IL-12(p35 and