

For Research Use Only

# NeutraKine®IL-9 Monoclonal antibody



Catalog Number:69031-1-Ig

## Basic Information

Catalog Number:

69031-1-Ig

Size:

Source:

Mouse

Isotype:

IgG2a

Immunogen Catalog Number:

HZ-1240

GenBank Accession Number:

GeneID (NCBI):

3578

Full Name:

interleukin 9

Purification Method:

Protein A purification

CloneNo.:

1B3A10

## Applications

Tested Applications:

Neutralization, ELISA

Species Specificity:

Human

## Background Information

Interleukin 9 (IL-9) is a  $\gamma$  c-family cytokine that is highly produced by T-helper 9 (Th9) cells. IL-9 could promote the survival and activation of various cellular targets, including mast cells, B cells, T cells, and structural cells. Its expression is considered a hallmark of Th2-lineage cells. Primarily studied in Th2-type immunity, IL-9 was shown to be involved in asthma, allergy, and host defense against helminth infections. IL-9 also stimulates cell proliferation and prevents apoptosis. It functions through the interleukin 9 receptor (IL9R), which activates different signal transducer and activator (STAT) proteins and thus connects this cytokine to various biological processes.

This antibody can be used to neutralize the bioactivity of IL-9.

## 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:

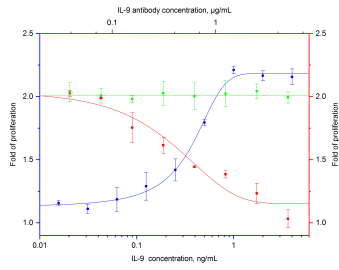
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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

## Selected Validation Data



Recombinant human IL-9 (Cat.NO. HZ-1240) stimulates proliferation of the MO7e human megakaryoblastic leukemia cell line in a dose-dependent manner (blue curve, refer to bottom X-left Y). The activity of human IL-9 (0.8 ng/mL HZ-1240) is neutralized by mouse anti-human IL-9 monoclonal antibody 69031-1-Ig at serial dose (red curve, refer to top X-right Y). The ND50 is typically 0.2-1.0  $\mu$ g/mL. Mouse IgG1 Isotype Control monoclonal antibody 66360-1-Ig was served as control

