

For Research Use Only

# NeutraKine® IL-3 Monoclonal antibody



Catalog Number: 69004-1-Ig

## Basic Information

<b>Catalog Number:</b> 69004-1-Ig	<b>GenBank Accession Number:</b> 3562	<b>Purification Method:</b> Protein G purification
<b>Size:</b> 100ug	<b>GeneID (NCBI):</b> 3562	<b>CloneNo.:</b> 3C11G7
<b>Source:</b> Mouse	<b>Full Name:</b> interleukin 3 (colony-stimulating factor, multiple)	
<b>Isotype:</b> IgG1		
<b>Immunogen Catalog Number:</b> HZ-1074		

## Applications

**Tested Applications:**  
ELISA, Neutralization

**Species Specificity:**  
Human

## Background Information

Interleukin-3 (IL-3) is a multilineage hematopoietic growth factor that promotes the proliferation, differentiation and survival of early multilineage hematopoietic progenitors. In particular, this cytokine plays a key role in stimulating the proliferation and survival of myeloid precursors. It is involved in a variety of cell activities such as cell growth, differentiation and apoptosis. This cytokine has been shown to also possess neurotrophic activity, and it may be associated with neurologic disorders (PMID: 24103757;2698876;2809196).

This antibody can be used to neutralize the bioactivity of IL-3.

## 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

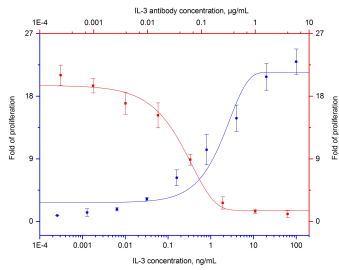
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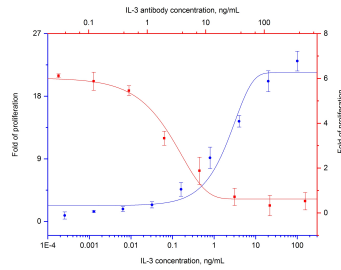
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## Selected Validation Data



Recombinant human IL-3 (Cat.NO. HZ-1074) stimulates proliferation of TF-1 cell line (human erythroleukemic cell line) in a dose-dependent manner (blue curve, refer to bottom X-left Y). The activity of human IL-3 (10 ng/mL HZ-1074) is neutralized by mouse anti-human IL-3 monoclonal antibody 69004-1-Ig at serial dose (red curve, refer to top X-right Y). The ND50 is typically 40-70 ng/mL.



Recombinant human IL-3 (Cat.NO. HZ-1074) stimulates proliferation of TF-1 cell line (human erythroleukemic cell line) in a dose-dependent manner (blue curve, refer to bottom X-left Y). The activity of human IL-3 (0.5 ng/mL HZ-1074) is neutralized by mouse anti-human IL-3 monoclonal antibody 69004-1-Ig at serial dose (red curve, refer to top X-right Y). The ND50 is typically 0.8-2.4 ng/mL.