

# NeutraKine® SCF Monoclonal antibody

Catalog Number: 69030-1-Ig

## Basic Information

<b>Catalog Number:</b> 69030-1-Ig	<b>GenBank Accession Number:</b> GeneID (NCBI): 4254	<b>Purification Method:</b> Protein G purification
<b>Size:</b> 100ug , Concentration: 1000 µg/ml by Nanodrop;	<b>Full Name:</b> KIT ligand	<b>CloneNo.:</b> 1A10G10
<b>Source:</b> Mouse		
<b>Isotype:</b> IgG1		
<b>Immunogen Catalog Number:</b> HZ-1024		

## Applications

**Tested Applications:**  
ELISA, Neutralization

**Species Specificity:**  
Human

## Background Information

Stem cell factor (SCF) also known as mast cell growth factor, steel factor, and kit ligand, is a hematopoietic growth factor. SCF is a critical protein with key roles in the cell such as hematopoiesis, gametogenesis and melanogenesis. SCF activates multiple signal pathways by binding with c-kit receptor. SCF and its receptor, c-kit ligand (KL), are up-regulated in particular human malignancies including gastrointestinal stromal tumor (GISTs), breast cancer, hematopoietic cell, myeloid leukaemia, and glioma. The SCF/c-KIT system also plays a relevant role in cell fate decision, and its activity is widely known to control cell proliferation, differentiation, survival and apoptosis.

This antibody is used to neutralize the bioactivity of SCF.

## 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.

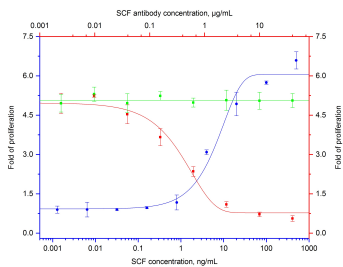
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

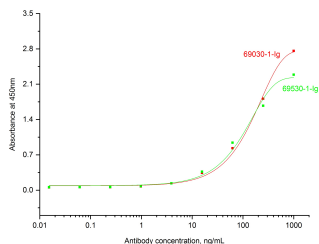
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
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## Selected Validation Data



Recombinant human SCF (Cat.NO. HZ-1024) 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 SCF (30 ng/mL HZ-1024) is neutralized by mouse anti-human SCF monoclonal antibody 69030-1-Ig at serial dose (red curve, refer to top X-right Y). The ND50 is typically 0.2-1.0  $\mu$ g/mL



Indirect ELISA was carried out by coating recombinant Human SCF (Cat.NO. HZ-1024) at 70 ng/well followed by blocking and adding serial diluted SCF antibody 69030-1-Ig and 69530-1-Ig respectively. Signal was developed with TMB and stopped by H2SO4. Signal strength was measured by absorbance at 450 nm.