

# NeutraControl SCF Monoclonal antibody

Catalog Number: 69530-1-Ig

## Basic Information

Catalog Number:

69530-1-Ig

Size:

1000 µg/ml

Source:

Mouse

Isotype:

IgG1

Immunogen Catalog Number:

HZ-1024

GenBank Accession Number:

GeneID (NCBI):

4254

Full Name:

KIT ligand

Purification Method:

Protein G purification

CloneNo.:

1E6G9

## Applications

Tested Applications:

Non-Neutralization, ELISA

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 a neutralizing control antibody for SCF, the immunogen is the same as Neutrakine 69030-1-Ig but could not neutralize human SCF.

## Storage

Storage:

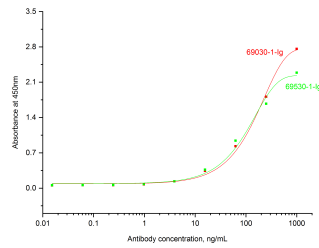
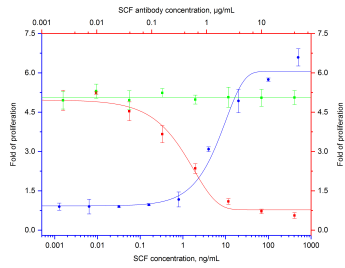
Lyophilized antibodies are stable for 1 year from the date of receipt if stored between (-20°C) and (-80°C). Upon reconstitution we recommend that the solution can be stored at(4°C) for short term or at(-20°C) to (-80°C) for long term. Repeated freeze thaw cycles should be avoided with reconstituted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

Storage Buffer:

Sterile PBS.

Aliquoting is unnecessary for -20°C storage

## 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. The NeutraControl mouse anti-human SCF monoclonal antibody 69530-1-Ig could



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.