

NeutraKine® SCF Monoclonal antibody

Catalog Number: 69030-1-Ig

Basic Information

Catalog Number:

69030-1-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.:

1A10G10

Applications

Tested Applications:

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 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

For technical support and original validation data for this product please contact:

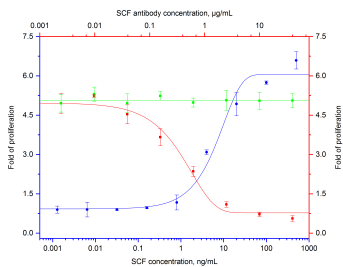
T: 4006900926

E: Proteintech-CN@ptglab.com

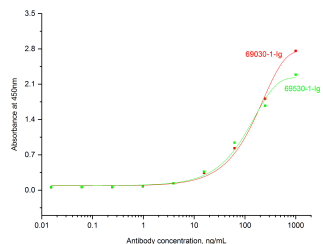
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Selected Validation Data



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 μ 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.