

For Research Use Only

Anti-Human SCF Rabbit Recombinant Antibody, PBS Only

Catalog Number: 98592-3-PBS



Basic Information

Catalog Number:

98592-3-PBS

Size:

1mg, 3 mg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

HZ-1024

GenBank Accession Number:

GeneID (NCBI):

4254

UNIPROT ID:

P21583

Full Name:

KIT ligand

Purification Method:

Protein A purification

CloneNo.:

250446E11

Applications

Tested Applications:

FC (Intra)

Species Specificity:

human

Background Information

Stem cell factor (SCF) is also named as mast cell growth factor (MGF), Kit ligand (Kitl), c-Kit ligand, steel factor and Kitlg. SCF is a pleiotropic cytokine (also as a dimeric molecule) that mediates regulatory effects on inflammation, tissue remodeling, and fibrosis through binding to and activating its receptor tyrosine kinase c-Kit (PMID: 1698553, PMID: 8630386, PMID: 23073628). SCF is the ligand of c-Kit, a member of the RTKs family. Molecular activity of RTKs is a primary stimulus of cell motility, and expression of the SCF/c-Kit axis is associated with cell migration (PMID: 28629522). SCF is a cytokine that synergizes the effects of Epo during erythropoiesis. Stem cell factor plays a well-described role in regulating the survival, proliferation, migration, and differentiation of hematopoietic progenitors, melanocytes, and germ cells (PMID: 36688460). More recent studies have demonstrated SCF expression in dermal and intestinal epithelial cells, and increased SCF expression has been reported in the inflamed mucosa of individuals with IBD and colitis (PMID: 18200049, PMID: 30157426).

Storage

Storage:

Store at -80°C.

Storage Buffer:

PBS only, pH7.3

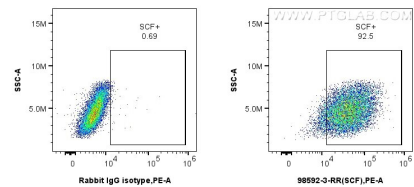
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

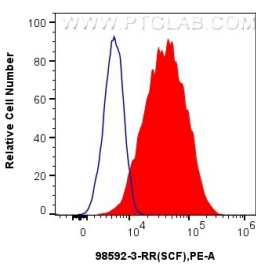
E: proteintech@ptglab.com
W: ptglab.com

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

Selected Validation Data



1x10⁶ human bone marrow mesenchymal stromal cells were intracellularly stained with 0.25 ug Anti-Human SCF Rabbit RecAb (98592-3-RR, Clone: 250446E11) or 0.25 ug Rabbit IgG Isotype Control RecAb (98136-1-RR, Clone: 240953C9), and PE-Conjugated Goat Anti-Rabbit IgG(H+L). Cells were incubated with FC Receptor Block prior to staining. Cells were fixed and permeabilized with Intracellular Flow Cytometry Fixation & Permeabilization Buffer Kit (PF00019).



1x10⁶ human bone marrow mesenchymal stromal cells were intracellularly stained with 0.25 ug Anti-Human SCF Rabbit RecAb (98592-3-RR, Clone: 250446E11) (red) or 0.25 ug Rabbit IgG Isotype Control RecAb (98136-1-RR, Clone: 240953C9) (blue), and PE-Conjugated Goat Anti-Rabbit IgG(H+L). Cells were incubated with FC Receptor Block prior to staining. Cells were fixed and permeabilized with Intracellular Flow Cytometry Fixation & Permeabilization