

For Research Use Only

# SCF Recombinant monoclonal antibody, PBS Only

Catalog Number: 84118-7-PBS



## Basic Information

|                                                                |                                                            |                                                       |
|----------------------------------------------------------------|------------------------------------------------------------|-------------------------------------------------------|
| <b>Catalog Number:</b><br>84118-7-PBS                          | <b>GenBank Accession Number:</b><br>GeneID (NCBI):<br>4254 | <b>Purification Method:</b><br>Protein A purification |
| <b>Size:</b><br>100ug , Concentration: 1 mg/ml by<br>Nanodrop; | <b>UNIPROT ID:</b><br>P21583                               | <b>CloneNo.:</b><br>250446E11                         |
| <b>Source:</b><br>Rabbit                                       | <b>Full Name:</b><br>KIT ligand                            |                                                       |
| <b>Isotype:</b><br>IgG                                         | <b>Observed MW:</b><br>31 kDa                              |                                                       |
| <b>Immunogen Catalog Number:</b><br>HZ-1024                    |                                                            |                                                       |

## Applications

**Tested Applications:**  
WB, IF/ICC, Indirect ELISA

**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 colonitis (PMID: 18200049, PMID: 30157426).

## Storage

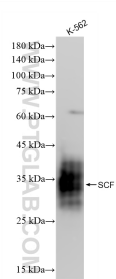
**Storage:**  
Store at -80°C.

**Storage Buffer:**  
PBS only, pH7.3

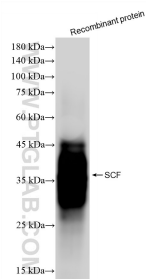
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
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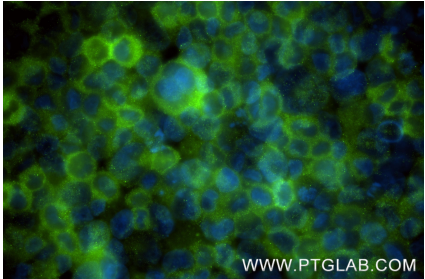
## Selected Validation Data



K-562 cells lysates were subjected to SDS PAGE followed by western blot with 84118-7-RR (SCF antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 84118-7-PBS in a different storage buffer formulation.



Recombinant protein was subjected to SDS PAGE followed by western blot with 84118-7-RR (SCF antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 84118-7-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed K-562 cells using SCF antibody (84118-7-RR, Clone: 250446E11 ) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). This data was developed using the same antibody clone with 84118-7-PBS in a different storage buffer formulation.