

SCF Recombinant monoclonal antibody

Catalog Number: 84118-7-RR

Basic Information

Catalog Number: 84118-7-RR	GenBank Accession Number: GeneID (NCBI): 4254	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 ug/ml by Nanodrop;	UNIPROT ID: P21583	CloneNo.: 250446E11
Source: Rabbit	Full Name: KIT ligand	Recommended Dilutions: WB: 1:500-1:2000 IF/ICC: 1:50-1:500
Isotype: IgG	Observed MW: 31 kDa	
Immunogen Catalog Number: HZ-1024		

Applications

Tested Applications: WB, IF/ICC, ELISA	Positive Controls:
Species Specificity: human	WB : K-562 cells, Recombinant protein IF/ICC : K-562 cells,

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

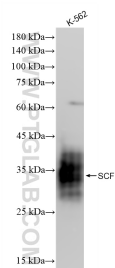
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
 Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

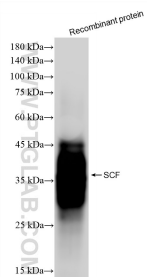
For technical support and original validation data for this product please contact:
 T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
 E: proteintech@ptglab.com
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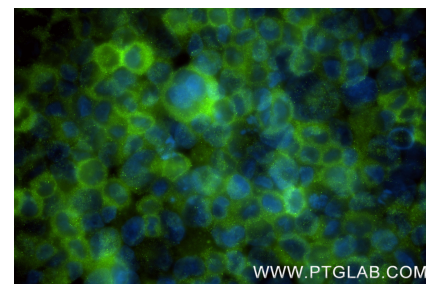
Selected Validation Data



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.



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.



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).