



# Anti-Mouse SCF

20150223ML



**FOR RESEARCH ONLY! NOT FOR HUMAN USE!**

<b>Cat.-no.:</b>	<b>103-P33</b>
Size:	100 µg
Lot. No.:	According to product label

**Preparation:** Produced from sera of rabbits pre-immunized with highly pure (>98%) recombinant murine SCF. Anti-murine SCF specific antibody was purified by affinity chromatography employing immobilized murine SCF matrix.

## Target Background

<b>Synonyms (Target):</b>	Kitl; Gb; SF; Sl; Clo; Con; Mgf; SCF; SLF; Kitlg; contrasted
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SCF is a hematopoietic growth factor that exerts its activity by signaling through the c-Kit receptor. SCF and c-Kit are essential for the survival, proliferation and differentiation of hematopoietic cells committed to the melanocyte and germ cell lineages. Human SCF manifests low activity on murine cells, while murine and rat SCF are fully active on human cells. Recombinant murine SCF is an 18.3 kDa polypeptide containing 164 amino acid residues, which corresponds to the sequence of the secreted soluble form of SCF.

### Database References Target

<b>Protein RefSeq:</b>	NP_038626.1
<b>Uniprot ID:</b>	P20826
<b>mRNA RefSeq:</b>	NM_013598.2

## Product Specifications

<b>Species reactivity</b>	Mouse
<b>Clone/Ab feature</b>	Rabbit IgG
<b>Cross reactivity</b>	Mouse
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal Antibody
<b>Purification</b>	Antigen-affinity purified
<b>Immunogen</b>	Recombinant Mouse SCF
<b>Formulation</b>	lyophilized from PBS
<b>Reconstitution buffer</b>	water

**Reconstitution:** Reconstitute the antibody in sterile water to a concentration of 0.1 - 1.0 mg/ml.

**Stability:** The lyophilized antibody is stable for at least 2 years from date of receipt at -20°C. The reconstituted antibody is stable for at least two weeks at 2-8°C. Frozen aliquots are stable for at least 6 months when stored at -20°C.



**AVOID REPEATED FREEZE AND THAW CYCLES!**

### Applications

**Neutralization:** To yield one-half maximal inhibition [ND<sub>50</sub>] of the biological activity of murine SCF (25.0 ng/ml), a concentration of 0.6 - 0.65 µg/ml of this antibody is required.

**ELISA:** To detect murine SCF by direct ELISA (using 100 µl/well antibody solution) a concentration of at least 0.5 µg/ml of this antibody is required. This antigen affinity purified antibody, in conjunction with compatible secondary reagents, allows the detection of 0.2 - 0.4 ng/well of recombinant murine SCF.

**Western Blot:** To detect murine SCF by Western Blot analysis this antibody can be used at a concentration of 0.1 - 0.2 µg/ml. Used in conjunction with compatible secondary reagents the detection limit for recombinant murine SCF is 1.5 - 3.0 ng/lane, under either reducing or non-reducing conditions.

**NOTE: OPTIMAL DILUTIONS SHOULD BE DETERMINED BY EACH LABORATORY FOR EACH APPLICATION!**