



Anti-Rat SCF

20150305BB



FOR RESEARCH ONLY! NOT FOR HUMAN USE!

Cat.-no.:	104-P30
Size:	100 µg
Lot. No.:	According to product label

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

Target Background

Synonyms (Target):	Kitlg; Mgf; SCF; Kitl
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Stem Cell Factor (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 rat SCF is an 18.4 kDa polypeptide containing 165 amino acid residues, which corresponds to the sequence of the secreted soluble form of SCF.

Database References Target

Protein RefSeq:	NP_068615.1
Uniprot ID:	P21581
mRNA RefSeq:	NM_021843

Product Specifications

Species reactivity	Rat
Clone/Ab feature	Rabbi IgG
Cross reactivity	Rat
Host	Rabbit
Clonality	Polyclonal Antibody
Purification	Antigen-affinity purified
Immunogen	Recombinant Rat SCF
Formulation	lyophilized from PBS
Reconstitution buffer	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

ELISA:

Sandwich: To detect rat SCF by sandwich ELISA (using 100µl/well antibody solution) a concentration of 0.5 - 2.0 µg/ml of this antibody is required. This antigen affinity purified antibody, in conjunction with compatible secondary reagents, allows the detection of at least 0.2 - 0.4 ng/well of recombinant rat SCF.

Western Blot: To detect rat 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 rat SCF is 1.5 - 3.0 ng/lane, under either reducing or non-reducing conditions.

Neutralization: To yield one-half maximal inhibition [ND50] of the biological activity of rat SCF (50.0 ng/ml), a concentration of 1.2-1.8 µg/ml of this antibody is required.

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