

## Anti-SCF/KITLG Antibody Picoband® FITC Conjugated

Catalog Number: A01254-1-FITC

### About KITLG

Stem Cell Factor (also known as SCF, kit-ligand, KL, or steel factor) is a cytokine that binds to the c-Kit receptor (CD117). The SCF gene is mapped to 12q21.32. SCF can exist both as a transmembrane protein and a soluble protein. This cytokine plays an important role in hematopoiesis (formation of blood cells), spermatogenesis, and melanogenesis. SCF may be used along with other cytokines to culture HSCs and hematopoietic progenitors. The expansion of these cells ex-vivo (outside the body) would allow advances in bone-marrow transplantation, in which HSCs are transferred to a patient to re-establish blood formation. One of the problems of injecting SCF for therapeutic purposes is that SCF activates mast cells. The injection of SCF has been shown to cause allergic-like symptoms and the proliferation of mast cells and melanocytes.

### Overview

Product Name	Anti-SCF/KITLG Antibody Picoband® FITC Conjugated
Reactive Species	Human, Mouse, Rat
Application	Recommended applications are based on the parent unconjugated antibody (IF, IHC, ICC, WB). Customers may select suitable applications according to their experimental needs.
Clonality	Polyclonal
Formulation	Each vial contains 50% glycerol, 0.9% NaCl, 0.2% Na <sub>2</sub> HPO <sub>4</sub> , 0.02% NaN <sub>3</sub> .
Storage Instructions	At -20°C for one year from date of receipt. Avoid repeated freezing and thawing. Protect from light.
Host	Rabbit
Uniprot ID	P21583

### Technical Details

Immunogen	E. coli-derived human SCF recombinant protein (Position: E26-A190).
Cross Reactivity	No cross-reactivity with other proteins.
Isotype	Rabbit IgG
Form	Liquid
Concentration	0.5 mg/mL
Purification	Immunogen affinity purified.
Conjugate	FITC Excitation Wavelength: 495 nm Emission Wavelength: 525 nm

Suggested Dilutions

Optimal dilutions should be determined by end users.

### 3 Publications Citing This Product

1. PubMed ID: 28033308, Effects of Polysaccharide of Gastrodia Elata Blume and Electro-Acupuncture on Expressions of Brain-Derived Neurotrophic Factor and Stem Cell Factor Protein in Caudate Putamen of Focal Cerebral Ischemia Rats
2. PubMed ID: 17657848, Selective tropism of liver stem cells to hepatocellular carcinoma in vivo.
3. PubMed ID: 29246405, Selective tropism of liver stem cells to hepatocellular carcinoma in vivo.

Visit [bosterbio.com/anti-scf-picoband-trade-antibody-a01254-1-boster.html](http://bosterbio.com/anti-scf-picoband-trade-antibody-a01254-1-boster.html) to see all 3 publications.

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