

#2273 Store at -20°C

SCF Antibody

✓ 100 µl
(10 western blots)

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This product is intended for research purposes only. This product is not intended to be used for therapeutic or diagnostic purposes in humans or animals.

Entrez-Gene ID # 4254
Swiss-Prot Acc. # P21583

Applications	Species Cross-Reactivity*	Molecular Wt.	Source
W	H	18 kDa	Rabbit**
Recombinant			

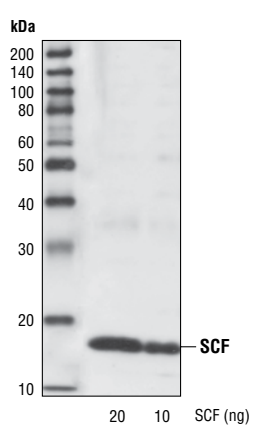
Background: Stem cell factor (SCF) is a growth factor that is essential for haemopoiesis, melanogenesis and fertility. SCF is also known as mast cell growth factor (MCGF), steel factor (SLF), or kit ligand (KL) (1–3). SCF mediates its biological effects by binding to and activating c-Kit (4). SCF induces dimerization of c-Kit followed by trans-autophosphorylation of the cytoplasmic protein tyrosine kinase domain, leading to subsequent recruitment of signaling proteins, tyrosine phosphorylation of substrates, and activation of multiple signaling pathways (5,6). SCF/c-Kit may take part in the growth control of human malignancies (7).

Specificity/Sensitivity: SCF antibody detects 5 ng of recombinant SCF.

Source/Purification: Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to amino acids near the amino terminus of human SCF. Antibodies are purified by protein A and peptide affinity chromatography.

Background References:

- (1) Smith, M.A. et al. (2001) *Blood Rev.* 15, 191–197.
- (2) Linnekin, D. (1999) *Int. J. Biochem. Cell Biol.* 31, 1053–1074.
- (3) Huang, E. et al. (1990) *Cell* 63, 225–233.
- (4) Jiang, X. et al. (2000) *EMBO J.* 19, 3192–3203.
- (5) Ashman, L.K. (1999) *Int. J. Biochem. Cell Biol.* 31, 1037–1051.
- (6) Ueda, S. et al. (2002) *Blood* 99, 3342–3349.
- (7) Attoub, S. et al. (2002) *Cancer Res.* 62, 4879–4883.



Western blot analysis of recombinant SCF #9907, using SCF Antibody.

Storage: Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.

*Species cross-reactivity is determined by western blot.

**Anti-rabbit secondary antibodies must be used to detect this antibody.

Recommended Antibody Dilutions:

Western blotting 1:1000

For application specific protocols please see the web page for this product at www.cellsignal.com.

Please visit www.cellsignal.com for a complete listing of recommended companion products.

IMPORTANT: For western blots, incubate membrane with diluted antibody in 5% w/v BSA, 1X TBS, 0.1% Tween-20 at 4°C with gentle shaking, overnight.

Applications Key: W—Western IP—Immunoprecipitation IHC—Immunohistochemistry ChIP—Chromatin Immunoprecipitation IF—Immunofluorescence F—Flow cytometry E-P—ELISA-Peptide

Species Cross-Reactivity Key: H—human M—mouse R—rat Hm—hamster Mk—monkey Mi—mink C—chicken Dm—D. melanogaster X—Xenopus Z—zebrafish B—bovine

Dg—dog Pg—pig Sc—S. cerevisiae Ce—C. elegans Hr—Horse All—all species expected Species enclosed in parentheses are predicted to react based on 100% homology.