

SCF (C19H6) Rabbit mAb

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Applications: W, IHC-P	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 18	Source/Isotype: Rabbit IgG	UniProt ID: #P21583	Entrez-Gene Id: 4254
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Product Usage Information**Application**

Western Blotting
Immunohistochemistry (Paraffin)

Dilution

1:1000
1:50

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

Specificity/Sensitivity

SCF (C19H6) Rabbit mAb detects endogenous levels of SCF by immunohistochemical staining and by flow cytometry. Western blotting detects recombinant SCF.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to amino acids in the N-terminal sequence of human SCF.

Background

Stem cell factor (SCF) is a growth factor that is essential for hematopoiesis, 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).

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.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

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

Applications Key

W: Western Blotting **IHC-P:** Immunohistochemistry (Paraffin)

Cross-Reactivity Key

H: Human

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