

SCF Antibody
Purified Rabbit Polyclonal Antibody
Catalog # ABV11585**Specification**

SCF Antibody - Product Information

Application	WB
Primary Accession	P21581
Reactivity	Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	30712

SCF Antibody - Additional Information**Gene ID** 60427**Other Names**

stem cell factor, Mast cell growth factor, MGF, C-kit ligand

Target/Specificity

SCF

Formulation

100 µg (0.5 mg/ml) affinity purified polyclonal antibody in phosphate-buffered saline (PBS) containing 30% glycerol, 0.5% BSA and 0.01% thimerosal.

Handling

The antibody solution should be gently mixed before use.

Background Descriptions**Precautions**

SCF Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

SCF Antibody - Protein Information**Name** Kitlg**Synonyms** Kitl, Mgf**Function**

Ligand for the receptor-type protein-tyrosine kinase KIT. Plays an essential role in the regulation of cell survival and proliferation, hematopoiesis, stem cell maintenance, gametogenesis, mast cell development, migration and function, and in melanogenesis. KITLG/SCF binding can activate several signaling pathways. Promotes phosphorylation of PIK3R1, the regulatory subunit of

phosphatidylinositol 3-kinase, and subsequent activation of the kinase AKT1. KITLG/SCF and KIT also transmit signals via GRB2 and activation of RAS, RAF1 and the MAP kinases MAPK1/ERK2 and/or MAPK3/ERK1. KITLG/SCF and KIT promote activation of STAT family members STAT1, STAT3 and STAT5. KITLG/SCF and KIT promote activation of PLCG1, leading to the production of the cellular signaling molecules diacylglycerol and inositol 1,4,5-trisphosphate. KITLG/SCF acts synergistically with other cytokines, probably interleukins.

Cellular Location

[Isoform 1]: Cell membrane; Single- pass type I membrane protein [Soluble KIT ligand]: Secreted.

SCF Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

SCF Antibody - Images**SCF Antibody - Background**

Stem Cell Factor (SCF) is a hematopoietic growth factor that exerts its activity at the early stages of hematopoiesis. SCF stimulates the proliferation of myeloid, erythroid, and lymphoid progenitors in bone marrow cultures. Rat SCF is an 18.4 kDa protein containing 165 amino acid residues.