

SCF Antibody
Purified Rabbit Polyclonal Antibody
Catalog # ABV11584**Specification**

SCF Antibody - Product Information

Application	WB
Primary Accession	P20826
Other Accession	AAA40095
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	30645

SCF Antibody - Additional Information**Gene ID** 17311**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 rabbit anti-mouse SCF polyclonal antibody in phosphate buffered saline (PBS), pH 7.2, 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, Sl, Slf**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.

Tissue Location

Expressed in the cochlea.

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.