

SCF Antibody

Purified Rabbit Polyclonal Antibody Catalog # ABV11584

Specification

SCF Antibody - Product Information

Application
Primary Accession
Other Accession
Reactivity
Host
Clonality
Isotype
Calculated MW

WB
P20826
AAA40095
Human, Mouse, Rat
Rabbit
Polyclonal
Rabbit IgG
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

 $100 \mu g$ (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.

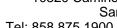
SCF Antibody - Protein Information

Name Kitlg

Synonyms Kitl, Mgf, SI, SIf

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
- <u>Immunoprecipitation</u>
- Flow Cytomety
- 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.