

## Product datasheet

# Anti-SCF antibody ab9753

### 1 References

#### Overview

<b>Product name</b>	Anti-SCF antibody
<b>Description</b>	Rabbit polyclonal to SCF
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB, ELISA, Neutralising
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse
<b>Immunogen</b>	Highly pure (>98%) recombinant mSCF (mouse Stem Cell Factor)

#### Properties

<b>Form</b>	Lyophilised:Reconstitute with 200µl of sterile water.
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term.
<b>Storage buffer</b>	PBS, pH 7.4, no preservative, sterile filtered
<b>Purity</b>	Immunogen affinity purified
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	unknown
<b>Light chain type</b>	unknown

#### Applications

Our [Abpromise guarantee](#) covers the use of **ab9753** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use a concentration of 0.1 - 0.2 µg/ml.
ELISA		Use a concentration of 0.5 µg/ml.
Neutralising		Use at an assay dependent dilution. To yield one-half maximal inhibition [ND <sub>50</sub> ] of the biological activity of mSCF (25.0 ng/ml), a concentration of 0.6 - 0.65 µg/ml of this antibody is required.

## Target

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<b>Function</b>	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.
<b>Involvement in disease</b>	Hyperpigmentation with or without hypopigmentation, familial progressive Deafness, congenital, unilateral or asymmetric
<b>Sequence similarities</b>	Belongs to the SCF family.
<b>Developmental stage</b>	Acts in the early stages of hematopoiesis.
<b>Post-translational modifications</b>	<p>A soluble form (sKITLG) is produced by proteolytic processing of isoform 1 in the extracellular domain.</p> <p>Found in two differentially glycosylated forms, LMW-SCF and HMW-SCF. LMW-SCF is fully N-glycosylated at Asn-145, partially N-glycosylated at Asn-90, O-glycosylated at Ser-167, Thr-168 and Thr-180, and not glycosylated at Asn-97 or Asn-118. HMW-SCF is N-glycosylated at Asn-118, Asn-90 and Asn-145, O-glycosylated at Ser-167, Thr-168 and Thr-180, and not glycosylated at Asn-97.</p> <p>A soluble form exists as a cleavage product of the extracellular domain.</p>
<b>Cellular localization</b>	Secreted; Cell membrane and Cytoplasm. Cytoplasm, cytoskeleton. Cell membrane. Cell projection, lamellipodium. Cell projection, filopodium.

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