

Product datasheet

Anti-SCF antibody ab9753

1 References

Overview

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

Properties

Form	Lyophilised:Reconstitute with 200µl of sterile water.
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term.
Storage buffer	PBS, pH 7.4, no preservative, sterile filtered
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	unknown
Light chain type	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 ₅₀] 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

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.
Involvement in disease	Hyperpigmentation with or without hypopigmentation, familial progressive Deafness, congenital, unilateral or asymmetric
Sequence similarities	Belongs to the SCF family.
Developmental stage	Acts in the early stages of hematopoiesis.
Post-translational modifications	<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>
Cellular localization	Secreted; Cell membrane and Cytoplasm. Cytoplasm, cytoskeleton. Cell membrane. Cell projection, lamellipodium. Cell projection, filopodium.

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