ARG55924
anti-SCF antibody

Package: 100 µg
Store at: -20°C

Summary

Product Description	Goat Polyclonal antibody recognizes SCF
Tested Reactivity	Hu
Tested Application	ELISA, ICC/IF, Neut, WB
Host	Goat
Clonality	Polyclonal
Isotype	IgG
Target Name	SCF
Species	Human
Immunogen	Recombinant Human SCF
Conjugation	Un-conjugated
Alternate Names	SCF; SHEP7; MGF; FPHH; sKITLG; Stem cell factor; KL-1; Kitl; Kit ligand; Mast cell growth factor; c-Kit ligand; FPH2; SF

Application Instructions

Application table

Application	Dilution
ELISA	0.5 - 2.0 µg/ml
ICC/IF	2.0 µg/ml
Neut	0.008 - 0.012 µg/ml (To yield [ND50] of the biological activity of hSCF (10 ng/ml))
WB	0.1 - 0.2 µg/ml

Application Note: * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

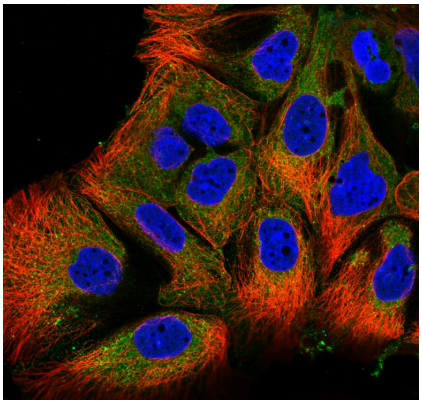
Properties

Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	PBS (pH 7.2)
Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

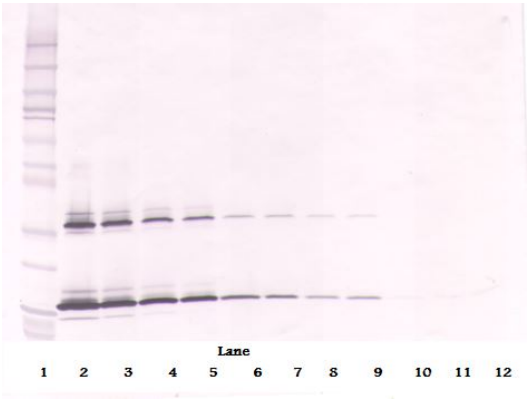
Database links	GeneID: 4254 Human Swiss-port # P21583 Human
Gene Symbol	KITLG
Gene Full Name	KIT ligand
Background	This gene encodes the ligand of the tyrosine-kinase receptor encoded by the KIT locus. This ligand is a pleiotropic factor that acts in utero in germ cell and neural cell development, and hematopoiesis, all believed to reflect a role in cell migration. In adults, it functions pleiotropically, while mostly noted for its continued requirement in hematopoiesis. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]
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. [UniProt]
Calculated Mw	31 kDa
PTM	A soluble form (sKITLG) is produced by proteolytic processing of isoform 1 in the extracellular domain. 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. A soluble form exists as a cleavage product of the extracellular domain.

Images



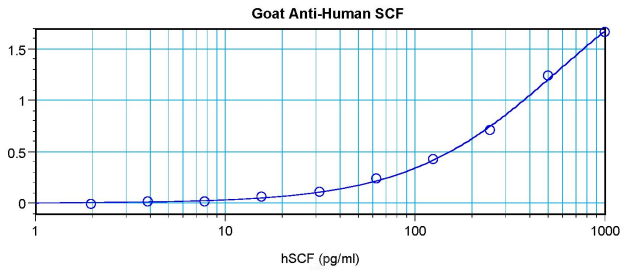
ARG55924 anti-SCF antibody ICC/IF image

Immunocytochemistry: CACO-2 cells stained with ARG55924 anti-SCF antibody at 2 µg/ml dilution (overnight at 4°C).



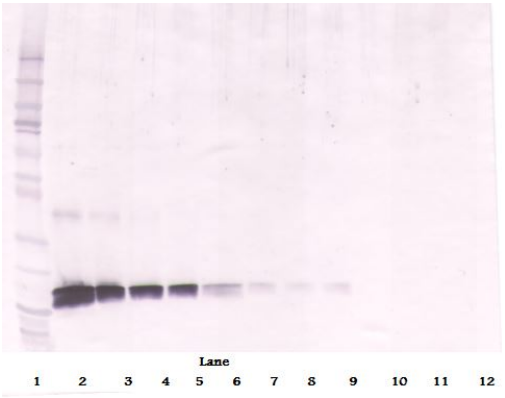
ARG55924 anti-SCF antibody WB image

Western blot: 250 - 0.24 ng (left to right) of recombinant Human SCF stained with ARG55924 anti-SCF antibody at non-reducing condition.



ARG55924 anti-SCF antibody standard curve image

ARG55924 anti-SCF antibody results of a typical standard run with optical density reading at 405 - 650 nm.



ARG55924 anti-SCF antibody WB image

Western blot: 250 - 0.24 ng (left to right) of recombinant Human SCF stained with ARG55924 anti-SCF antibody at reducing condition.