

Human SCF PicoKine ELISA Kit | KITLG elisa kit

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CATALOG #
AAA46133

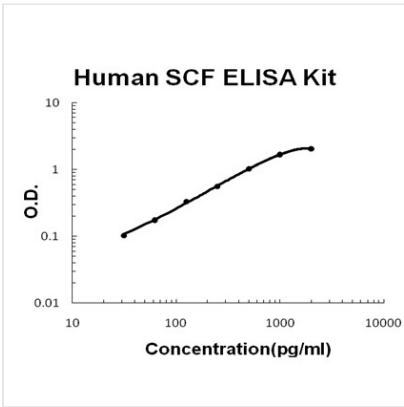
REACTIVITY
Human

PRODUCT SYNONYMS

SCF PicoKine; Human SCF PicoKine ELISA Kit; Kit ligand; C kit ligand; Ckit ligand; Kitl; KITLG; KL 1; KL1; Mast cell growth factor; MGF; SF; SHEP7; Steel factor; Stem cell factor; Stem cell factor precursor; Stem Cell Factor (SCF); KITLG elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Natural and recombinant human SCF
Sequence Length	273
Assay Range	31.2pg/ml-2000pg/ml
Sensitivity	<10pg/ml
Sample	For quantitative detection of human SCF in cell culture supernates, serum and plasma (heparin, EDTA, citrate).
Immunogen	E Coli, E26-A190
Assay Procedure Step 1	Aliquot 0.1ml per well of the 2000pg/ml, 1000pg/ml, 500pg/ml, 250pg/ml, 125pg/ml, 62.5pg/ml, 31.2pg/ml human SCF standard solutions into the precoated 96-well plate. Add 0.1ml of the sample diluent buffer into the control well (Zero well). Add 0.1ml of each properly diluted sample of human cell culture supernates, serum or plasma (heparin, EDTA, citrate) to each empty well. It is recommended that each human SCF standard solution and each sample be measured in duplicate.
Intra-Assay Precision	Inter-Assay Precision Sample 1 2 3 1 2 3 n 16 16 16 24 24 24 Mean(pg/ml) 115 450 1558 120 400 1889 Standard Deviation 5.75 23.40 91.92 7.32 26.40 122.78 CV(%) 5.0 5.2 5.9 6.1 6.6 6.5
Sample Data	Concentration(pg/ml) 0 31.2 62.5 125 250 500 1000 2000 O.D. 0.004 0.102 0.175 0.333 0.559 1.021 1.672 2.054
Anticoagulant	Heparin, EDTA or Citrate
Preparation and Storage	Store at 4 degree C for 6 months, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles.



Standard Curve (Sample)
Human SCF PicoKine ELISA Kit standard curve

ADDITIONAL INFORMATION

Related Product Information for KITLG elisa kit	Principle of the assay: Human SCF ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for SCF has been precoated onto 96-well plates. Standards (E Coli, E26-A190) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for SCF is added subsequently and then followed by washing with PBS or TBS buffer. Avidin-Biotin-Peroxidase Complex was added and unbound conjugates were washed away with PBS or TBS buffer. HRP substrate TMB was used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the human SCF amount of sample captured in plate. Background: Stem Cell Factor (also known as SCF, kit-ligand, KL, or steel factor) is a cytokine that binds to the c-Kit receptor (CD117). It is mapped to 12q21.32. SCF was primarily expressed by perivascular cells throughout the bone marrow, and it plays a role in the regulation of HSCs in the stem cell niche in the bone marrow. SCF can exist both as a transmembrane protein and a soluble protein. This gene plays an important role in the hematopoiesis during embryonic development. During development, the presence of the SCF also plays an important role in the localization of melanocytes, cells that produce melanin and control pigmentation. In addition to it, SCF can promote mast cell adhesion, migration, proliferation, and survival. It also promotes the release of histamine and tryptase, which are involved in the allergic response.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4505175
NCBI GeneID	4254
NCBI Accession #	NP_000890.1
NCBI GenBank Nucleotide #	NM_000899.4
UniProt Accession #	P21583; Q16487; Q68DZ2; Q7M4N8; Q9UQK7; A0AV09; A8K2Q4; B7ZLM4
Molecular Weight	26,667 Da
NCBI Official Full Name	kit ligand isoform b
NCBI Official Synonym Full Names	KIT ligand
NCBI Official Symbol	KITLG
NCBI Official Synonym Symbols	SF; MGF; SCF; DCUA; FPH2; FPHH; KL-1; Kitl; SHEP7
NCBI Protein Information	kit ligand
UniProt Protein Name	Kit ligand

UniProt Gene Name	KITLG
UniProt Synonym Gene Names	MGF; SCF; MGF; SCF; sKITLG
UniProt Entry Name	SCF_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/human-elisa-kits/scf-picokine/46133>