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# **KIT Ligand ELISA Kit**



**Image** 



#### Overview

Quantity:	1 kit
Target:	KIT Ligand (KITLG)
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	31.2 pg/mL - 2000 pg/mL
Minimum Detection Limit:	31.2 pg/mL
Application:	ELISA

#### **Product Details**

Purpose:	Sandwich ELISA for Quantitative Detection of Antigen
Sample Type:	Cell Culture Supernatant, Plasma (EDTA - heparin - citrate), Serum
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Characteristics:	Synonyms: C kit ligand, Ckit ligand, Kit ligand, Kitl, KITLG, KL 1, KL1, Mast cell growth factor,
	MGF, SF, SHEP7, Steel factor, Stem cell factor, Stem cell factor precursor
	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.

Gene Name: KITLG

Production: Natural and recombinant human SCF. There is no detectable cross-reactivity with other relevant proteins.

Standard: Expression system for standard: E.coli, Immunogen sequence: E26-A190

#### **Target Details**

Target:	KIT Ligand (KITLG)
Alternative Name:	SCF (KITLG Products)
Gene ID:	4254
NCBI Accession:	NP_000890
UniProt:	P21583
Pathways:	RTK Signaling, Fc-epsilon Receptor Signaling Pathway, EGFR Signaling Pathway, Neurotrophin Signaling Pathway

#### **Application Details**

Application Notes:	,
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Application Note: Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1 mL 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 0.1 mL of the sample diluent buffer into the control well (Zero well). Add 0.1 mL 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.

Blood Product Anticoagulant: Heparin Sodium

ELISA Dilution: 31.2pg/mL-2000pg/mL

Sample Volume: 100 µL

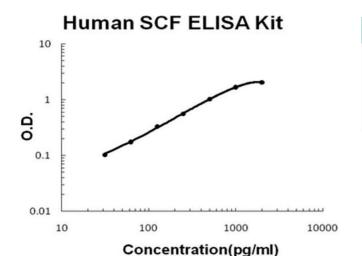
Plate: Pre-coated

Restrictions: For Research Use only

## Handling

Storage:	RT,4 °C,-20 °C
Storage Comment:	Store vials at 4°C prior to opening. Centrifuge product if not completely clear after standing at
	room temperature. This product is stable for 6 months at 4°C as an undiluted liquid. Dilute only
	prior to immediate use. For extended storage freeze at -20°C or below for 12 months. Avoid
	cycles of freezing and thawing.

### **Images**



#### **ELISA**

Image 1. Human SCF Accusignal ELISA Kit Human SCF AccuSignal ELISA Kit standard curve. Assay Range: 31.2pg/ml-2000pg/ml. Sensitivity: <10pg/ml.