

Datasheet for ABIN6719937

KIT Ligand ELISA Kit[Go to Product page](#)**1** Image

Overview

Quantity:	1 kit
Target:	KIT Ligand (KITLG)
Reactivity:	Mouse
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:	Mouse SCF Sandwich ELISA Kit for Quantitative Detection
Brand:	AccuSignal™
Sample Type:	Cell Culture Supernatant, Plasma (EDTA), Serum
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Specificity:	Production: Natural and recombinant mouse SCF. There is no detectable cross-reactivity with other relevant proteins.
Sensitivity:	< 10 pg/mL
Components:	<ul style="list-style-type: none">• Antibody-coated 96-well plate• Target Protein Standard• Detection antibody

Product Details

- Detection reagent
- Diluent buffers
- Wash buffers
- Substrate Solution
- Stop solutions
- Adhesive covers

Target Details

Target: KIT Ligand (KITLG)

Alternative Name: SCF ([KITLG Products](#))

Background: 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 ID: 17311

NCBI Accession: [NP_038626](#)

UniProt: [P20826](#)

Pathways: [RTK Signaling](#), [Fc-epsilon Receptor Signaling Pathway](#), [EGFR Signaling Pathway](#), [Neurotrophin Signaling Pathway](#)

Application Details

Application Notes: 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 mouse 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 mouse cell culture supernates, serum or plasma(EDTA) to each empty well. It is recommended that each

Application Details

mouse SCF standard solution and each sample be measured in duplicate.

Comment: Standard: Expression system for standard: E.coli, Immunogen sequence: K26-A190

Sample Volume: 100 μ L

Plate: Pre-coated

Restrictions: For Research Use only

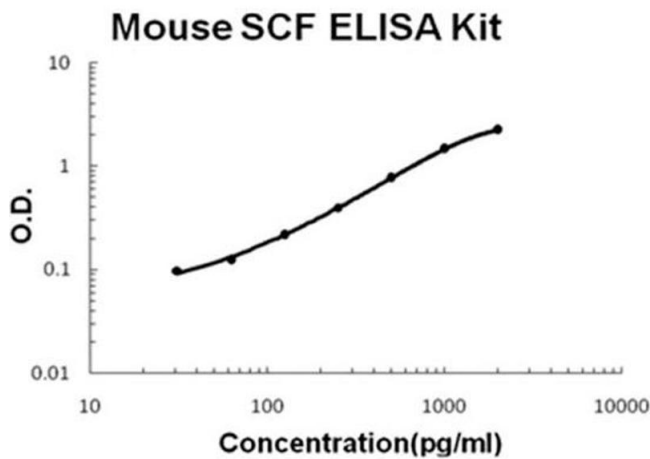
Handling

Storage: 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.

Expiry Date: 12 months

Images



ELISA

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