

## Datasheet for KOA0304

# Rat SCF ELISA Kit

### Overview

<b>Description:</b>	Rat SCF AccuSignal ELISA Kit - KOA0304
<b>Item No.:</b>	KOA0304
<b>Size:</b>	1 Kit
<b>Applications:</b>	ELISA
<b>Reactivity:</b>	Rat
<b>Range:</b>	31.2 pg/ml - 2000 pg/ml

### Product Details

<b>Background:</b>	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.
<b>Synonyms:</b>	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
<b>Detection Kit Type:</b>	ELISA Kit
<b>Detection Range:</b>	31.2 pg/ml - 2000 pg/ml
<b>Sensitivity:</b>	<10 pg/ml

### Target Details

<b>Gene Name:</b>	KITLG
<b>Reactivity:</b>	Rat
<b>Immunogen:</b>	Expression system for standard: E.coli; Immunogen sequence: Q26-A190

**Purity/Specificity:** Natural and recombinant rat SCF. There is no detectable cross-reactivity with other relevant proteins.

**Relevant Links:**

- [UniProtKB - P21581](#)
- [NCBI - NP\\_068615.1](#)
- [GeneID - 60427](#)
- [KOA0304 Protocol](#)

## Application Details

**Tested Applications:** ELISA

**Application Note:** Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1ml per well of the 2000pg/ml, 1000pg/ml, 500pg/ml, 250pg/ml, 125pg/ml, 62.5pg/ml, 31.2pg/ml rat 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 rat cell culture supernates, serum or plasma (EDTA) to each empty well. It is recommended that each rat SCF standard solution and each sample be measured in duplicate.

**Assay Dilutions:** All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

## Formulation

**Concentration:** 1 Kit

**Anticoagulant:** Sodium EDTA

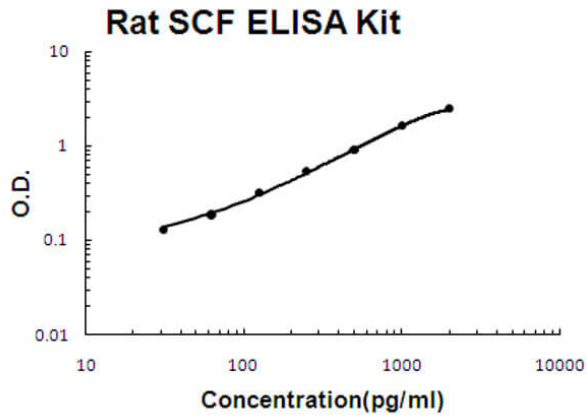
## Shipping & Handling

**Shipping Condition:** Wet Ice

**Storage Condition:** 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.

**Expiration:** See kit insert for complete instructions.

## Images

**ELISA**

Rat SCF AccuSignal ELISA Kit standard curve. Assay Range: 31.2pg/ml-2000pg/ml. Sensitivity: <10pg/ml.

**Disclaimer**

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.