

## Product datasheet

# Recombinant mouse SCF protein ab106309

### 画像数 1

#### 製品の概要

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製品名	Recombinant mouse SCF protein
タンパク質長	Full length protein

#### 製品の詳細

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由来	Recombinant
由来	Escherichia coli

#### アミノ酸配列

アクセッション番号 [P20826](#)

生物種 Mouse

分子量 18 kDa

領域 26 to 190

配列の追加情報 Murine SCF is a 18.3 kDa protein containing 164 amino acid residues, as the soluble form is produced by proteolytic processing of isoform 1 in the extracellular domain.

#### 特性

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Our [Abpromise guarantee](#) covers the use of **ab106309** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

**生理活性** The ED<sub>50</sub> as determined by the dose-dependent stimulation of the proliferation of the human TF-1 cell line is < 10 ng/ml, corresponding to a specific activity of >1 x 10<sup>5</sup> units/mg.

**アプリケーション** SDS-PAGE  
Functional Studies

**エンドトキシン・レベル** < 0.100 Eu/μg

**精製度** > 98 % SDS-PAGE.

**製品の状態** Lyophilised

**備考** Endotoxin level: < 0.1 ng/g of SCF

## 前処理および保存

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### 保存方法および安定性

Shipped at 4°C. After reconstitution store at -20°C. Avoid freeze / thaw cycles.

Preservative: None

Constituents: 30mM Tris, 100mM Sodium chloride, pH 7.4

This product is an active protein and may elicit a biological response in vivo, handle with caution.

### 再構成

Reconstitute in 50 mM acetic acid or water to a concentration of 0.1 mg/ml. **Do not vortex**

## 関連情報

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### 機能

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.

### 関連疾患

Hyperpigmentation with or without hypopigmentation, familial progressive Deafness, congenital, unilateral or asymmetric

### 配列類似性

Belongs to the SCF family.

### 発生段階

Acts in the early stages of hematopoiesis.

### 翻訳後修飾

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.

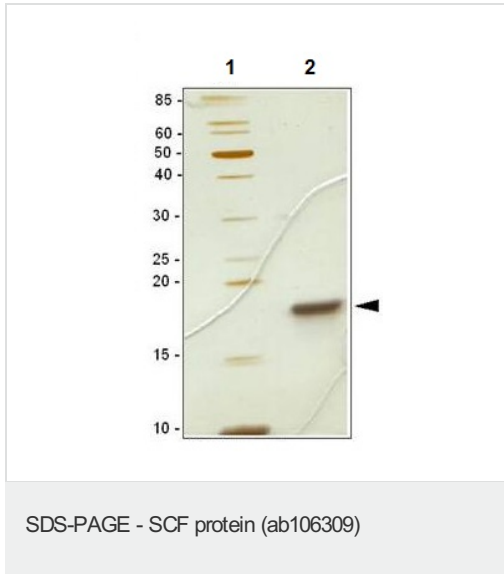
A soluble form exists as a cleavage product of the extracellular domain.

### 細胞内局在

Secreted; Cell membrane and Cytoplasm. Cytoplasm, cytoskeleton. Cell membrane. Cell projection, lamellipodium. Cell projection, filopodium.

## 画像

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15% SDS-PAGE.

Lane 1: Molecular weight marker.

Lane 2: SCF protein.

Visualised by silver stain.

**Please note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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