

**Human CellExp KITLG /SCF, mouse recombinant protein**  
KITLG, FPH2, KL-1, Kitl, MGF, SCF, SF, SHEP7, KL.  
Catalog # PBV11104r

## Specification

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### Human CellExp KITLG /SCF, mouse recombinant protein - Product info

Primary Accession  
Calculated MW

[P20826](#)

This protein is fused with 6×His tag at the C-terminus, has a calculated MW of 19.1 kDa. The predicted N-terminus is Lys 26. DTT-reduced Protein migrates as 19-30 kDa due to different glycosylation. KDa

### Human CellExp KITLG /SCF, mouse recombinant protein - Additional Info

Gene ID  
Gene Symbol

**17311**  
**KITLG**

#### Other Names

KITLG, FPH2, KL-1, Kitl, MGF, SCF, SF, SHEP7, KL.

Gene Source  
Source  
Assay&Purity  
Assay2&Purity2  
Recombinant  
Results

**Mouse**  
**HEK293 cells**  
**SDS-PAGE; ≥98%**  
**N/A;**  
**Yes**  
**Measured in a cell proliferation assay using TF-1 human erythroleukemic cells. The ED50 for this effect is typically 0.5 - 8 ng/ml.**

**Target/Specificity**  
KITLG /SCF

### Application Notes

Centrifuge the vial prior to opening. Reconstitute in sterile PBS, pH 7.4 to a concentration of 50 µg/ml. Do not vortex. This solution can be stored at 2-8°C for up to 1 month. For extended storage, it is recommended to store at -20°C.

**Format**  
Lyophilized

**Storage**  
-20°C; Lyophilized from 0.22 µm filtered solution in PBS, pH 7.4. Normally Mannitol or Trehalose is added as protectants before lyophilization.

### Human CellExp KITLG /SCF, mouse recombinant protein - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### **Human CellExp KITLG /SCF, mouse recombinant protein - Images**

#### **Human CellExp KITLG /SCF, mouse recombinant protein - Background**

Kit ligand (KITLG) also known as stem cell factor (SCF), mast cell growth factor (MGF), steel factor (SF), which belongs to the SCF family, and is a widely expressed 28 - 40 kDa type I transmembrane glycoprotein. KITLG is the ligand for the receptor-type protein-tyrosine kinase KIT. SCF / MGF 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. KITLG / SF 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 - triphosphate. KITLG / SCF acts synergistically with other cytokines, probably interleukins.

#### **Human CellExp KITLG /SCF, mouse recombinant protein - References**

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Huang E.J.,et al.Mol. Biol. Cell 3:349-362(1992).  
Flanagan J.G.,et al.Cell 64:1025-1035(1991).  
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