

Human CellExp KITLG /SCF, mouse recombinant protein

KITLG, FPH2, KL-1, Kitl, MGF, SCF, SF, SHEP7, KL. Catalog # PBV11104r

Specification

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

Primary Accession P20826

Calculated MW 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 17311
Gene Symbol KITLG

Other Names

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

Gene Source Mouse

Source HEK293 cells
Assay&Purity SDS-PAGE; ≥98%

Assay2&Purity2 N/A;
Recombinant Yes

Results 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 μ g/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

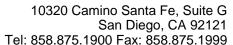
Lyophilized

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 Cytomety
- 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.

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Anderson D.M.,et al.Cell 63:235-243(1990). Huang E.J.,et al.Mol. Biol. Cell 3:349-362(1992). Flanagan J.G.,et al.Cell 64:1025-1035(1991). Brannan C.I.,et al.Genes Dev. 6:1832-1842(1992). Bedell M.A.,et al.Genetics 142:927-934(1996).