

Stem Cell Factor (SCF) Active Protein | SCF active protein

Active Stem Cell Factor (SCF)

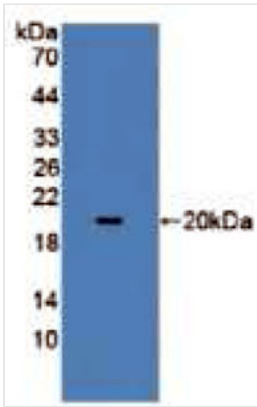
CATALOG # AAA21108	HOST 293F cell	REACTIVITY Sus scrofa; Porcine (Pig)	APPLICATIONS Cell Culture, Activity Assay, Invivo Assay
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PRODUCT SYNONYMS

Stem Cell Factor (SCF); Active Stem Cell Factor (SCF); KITLG; MGF; SF; KL1; Kitl; FPH2; Kit-Ligand; Steel Factor; Mast Cell Growth Factor; Steel factor; Familial Progressive Hyperpigmentation 2; SCF active protein

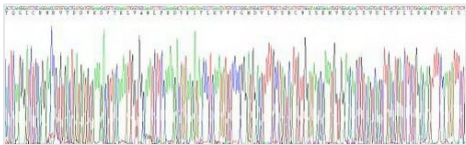
PRODUCT SPECIFICATIONS

Host	293F cell
Reactivity	Sus scrofa; Porcine (Pig)
Purity/Purification	>95%
Form/Format	PBS, pH7.4, containing 5% Trehalose
Applicable Applications for SCF active protein	Cell Culture, Activity Assay, Invivo Assay
Application Notes	(May be suitable for use in other assays to be determined by the end user.)
Source	Eukaryotic expression.
Residues	Thr25~Ala191
Tags	N-terminal His-tag
Endotoxin Level	<1.0EU per 1ug (determined by the LAL method)
Predicted isoelectric point	5.3
Usage	Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.
Preparation and Storage	Storage: Avoid repeated freeze/thaw cycles. Store at 2-8 degree C for one month. Aliquot and store at -80 degree C for 12 months. Stability Test: The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 degree C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.



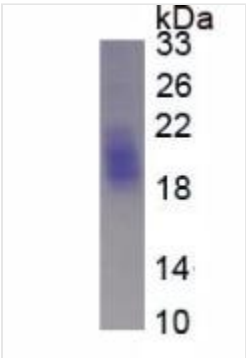
WB (Western Blot)

Western Blot Sample: Recombinant SCF, Porcine; Antibody: Rabbit Anti-Porcine SCF Ab



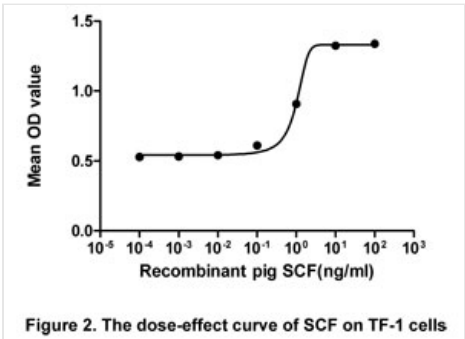
Identification

Gene Sequence (extract)



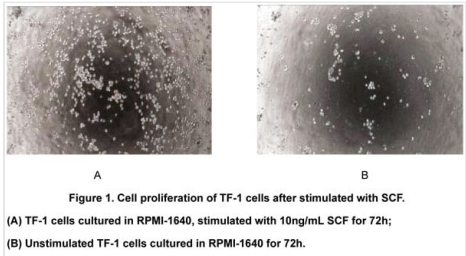
SDS-PAGE

Sample: Active recombinant SCF, Porcine



Activity

The dose-effect curve of SCF was shown in Figure 2. It was obvious that it significantly promoted cell proliferation of TF-1 cells. The ED50 for this effect is typically 6.07 to 13.69ng/mL.



Activity

Stem cell factor (SCF), also known as mast cell growth factor (MGF), and steel factor (SLF), plays an important role in hematopoiesis, spermatogenesis, and melanogenesis. SCF has been shown to stimulate the proliferation of TF-1 cells. To test this effect, TF-1 cells were seeded into triplicate wells of 96-well plates at a density of 1x10⁴cells/well and incubated for 72h in the presence or absence of various concentrations of SCF at 37 degree C. The growth of cells were observed by inverted microscope and cell proliferation was measured by Cell Counting Kit-8 (CCK-8). Briefly, 10uL of CCK-8 solution was added to each well of the plate, then measure the absorbance at 450nm using a microplate reader after incubating the plate for 1-4 hours at 37 degree C. Cell proliferation of TF-1 cells after incubation with SCF for 72h observed by inverted microscope was shown in Figure 1.

Sequence Information

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TGGICR NRVTDVVDV TKLVANLPKD
YKITLKYVPG MDVLPSCWI SEMVEQLSVS LTDLLDKFSN ISEGLSNYSI
IDKLKIVDD LVECMEEHSF ENVKKSSKSP EPRLFTPEKF FGIFNRSIDA
FKDLEMVAPK TSECVISSTL TPEKDSRVSV TKPFMLPPVA A
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Sequence Information

ADDITIONAL INFORMATION

Product Categories/Family for SCF
active protein

Cytokine; Hematology

NCBI AND UNIPROT INFORMATION

NCBI GI # 1102835199

NCBI GeneID	17311
NCBI Accession #	NP_001334085.1
NCBI GenBank Nucleotide #	NM_001347156.1
UniProt Accession #	P20826 ; P97332 ; Q3TNJ7 ; Q62524 ; Q64222 ; Q921N5
Molecular Weight	Predicted Molecular Mass: 20.4kDa Accurate Molecular Mass: 20kDa as determined by SDS-PAGE reducing conditions.
NCBI Official Full Name	kit ligand isoform 2
NCBI Official Synonym Full Names	kit ligand
NCBI Official Symbol	Kitl
NCBI Official Synonym Symbols	Gb; SF; Sl; Clo; Con; Mgf; SCF; SLF; blz; Kitlg; contrasted
NCBI Protein Information	kit ligand
UniProt Protein Name	Kit ligand
UniProt Gene Name	Kitlg
UniProt Synonym Gene Names	Kitl; Mgf; Sl; Slf; MGF; SCF; SKITLG

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/293f-cell-pig-porcine-sus-scrofa-active-protein/stem-cell-factor-scf/21108>