ARG80159
Human SCF ELISA Kit

Package: 96 wells
Store at: 4°C

Component

Cat. No.	Component Name	Package	Temp
ARG80159-001	Antibody-coated microplate	8 X 12 strips	4°C. Unused strips should be sealed tightly in the air-tight pouch.
ARG80159-002	Standard (Lyophilized)	3 X 2 ng/vial	4°C
ARG80159-003	Standard diluent buffer	20 ml	4°C
ARG80159-004	Antibody conjugate concentrate	400 µl	4°C
ARG80159-005	Antibody diluent buffer	16 ml	4°C
ARG80159-006	HRP-Streptavidin concentrate	400 µl	4°C (Protect from light)
ARG80159-007	HRP-Streptavidin diluent buffer	16 ml	4°C
ARG80159-008	20X Wash buffer	50 ml	4°C
ARG80159-009	TMB substrate	12ml	4°C (Protect from light)
ARG80159-010	STOP solution	12ml	4°C
ARG80159-011	Plate sealer	4 strips	Room temperature

Summary

Product Description	ARG80159 Human SCF ELISA Kit is an Enzyme Immunoassay kit for the quantification of Human SCF in Serum, Plasma, Cell culture supernatants.
Tested Reactivity	Hu
Tested Application	ELISA
Specificity	No significant cross-reactivity or interference with Human G-CSF, GM-CSF, IL-1 alpha, IL-2, M-CSF, PDGF-AA, PDGF-AB, PDGF-BB; Rat GM-CSF
Target Name	SCF
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm
Sensitivity	15 pg/ml
Sample Type	Serum, Plasma, Cell culture supernatants
Standard Range	31.25 - 2000 pg/ml

Sample Volume	100 µl
Precision	CV: less than10%
Alternate Names	SCF; SHEP7; MGF; FPHH; sKITLG; Stem cell factor; KL-1; Kitl; Kit ligand; Mast cell growth factor; c-Kit ligand; FPH2; SF

Application Instructions

Assay Time	4 hours

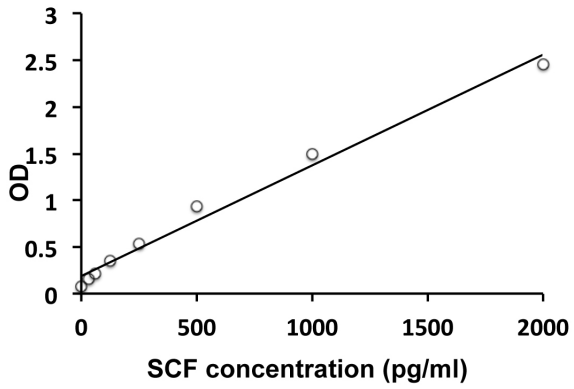
Properties

Form	96 well
Storage instruction	Store the kit at 2-8°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Database links	GeneID: 4254 Human Swiss-port # P21583 Human
Gene Symbol	KITLG
Gene Full Name	KIT ligand
Background	Stem Cell Factor (SCF), also called c-kit Ligand or Mast Cell Growth Factor (MGF), is a peptide growth factor/cytokine with broad activities, especially related to hematopoiesis (ref 1-3). SCF acts on early hematopoietic progenitor/stem cells and stimulates the proliferation and survival of mast cells. Also, SCF is one of the most potent stimulators of multi-lineage progenitors (CFU-GEMM) in both human and murine bone marrow cells (ref 2,4). SCF acts synergistically with other growth factors, including erythropoietin, G-CSF, M-CSF, GM-CSF, IL-3 and IL-6, to increase the number and size of colonies of hematopoietic progenitors (ref 1,2,5). SCF appears to play an important role in the survival, proliferation or migration of primordial germ cells and melanoblasts during both development and maturation (ref 6,7).
Highlight	Related products: SCF antibodies; SCF ELISA Kits; New ELISA data calculation tool: Simplify the ELISA analysis by GainData
Research Area	Developmental Biology kit; Immune System kit
PTM	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.

Images



ARG80159 Human SCF ELISA Kit standard curve image

ARG80159 Human SCF ELISA Kit results of a typical standard run with optical density reading at 450 nm.