ARG81672
Mouse SCF ELISA Kit

Package: 96 wells
Store at: 4°C

Component

Cat. No.	Component Name	Package	Temp
ARG81672-001	Antibody-coated microplate	8 X 12 strips	4°C. Unused strips should be sealed tightly in the air-tight pouch.
ARG81672-002	Standard	2 X 10 ng/vial	4°C
ARG81672-003	Standard/Sample diluent	30 ml (Ready to use)	4°C
ARG81672-004	Antibody conjugate concentrate (100X)	1 vial (100 µl)	4°C
ARG81672-005	Antibody diluent buffer	12 ml (Ready to use)	4°C
ARG81672-006	HRP-Streptavidin concentrate (100X)	1 vial (100 µl)	4°C
ARG81672-007	HRP-Streptavidin diluent buffer	12 ml (Ready to use)	4°C
ARG81672-008	25X Wash buffer	20 ml	4°C
ARG81672-009	TMB substrate	10 ml (Ready to use)	4°C (Protect from light)
ARG81672-010	STOP solution	10 ml (Ready to use)	4°C
ARG81672-011	Plate sealer	4 strips	Room temperature

Summary

Product Description	ARG81672 Mouse SCF ELISA Kit is an Enzyme Immunoassay kit for the quantification of Mouse SCF in serum, plasma (EDTA) and cell culture supernatants.
Tested Reactivity	Ms
Tested Application	ELISA
Specificity	There is no detectable cross-reactivity with other relevant proteins.
Target Name	SCF
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	15.6 pg/ml
Sample Type	Serum, plasma (EDTA) and cell culture supernatants.
Standard Range	31.2 - 2000 pg/ml
Sample Volume	100 µl

Precision	Intra-Assay CV: 5.9%; Inter-Assay CV: 6.9%
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	~ 5 hours

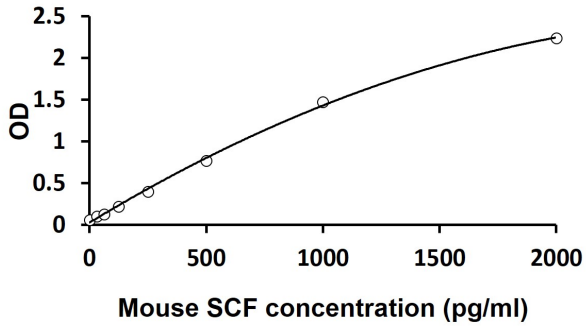
Properties

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

Gene Symbol	KITLG
Gene Full Name	KIT ligand
Background	This gene encodes the ligand of the tyrosine-kinase receptor encoded by the KIT locus. This ligand is a pleiotropic factor that acts in utero in germ cell and neural cell development, and hematopoiesis, all believed to reflect a role in cell migration. In adults, it functions pleiotropically, while mostly noted for its continued requirement in hematopoiesis. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]
Function	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. [UniProt]
Highlight	Related products: SCF antibodies; SCF ELISA Kits; New ELISA data calculation tool: Simplify the ELISA analysis by GainData
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. [UniProt]

Images



ARG81672 Mouse SCF ELISA Kit standard curve image

ARG81672 Mouse SCF ELISA Kit results of a typical standard run with optical density reading at 450 nm.