

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

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| 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 |

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| 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

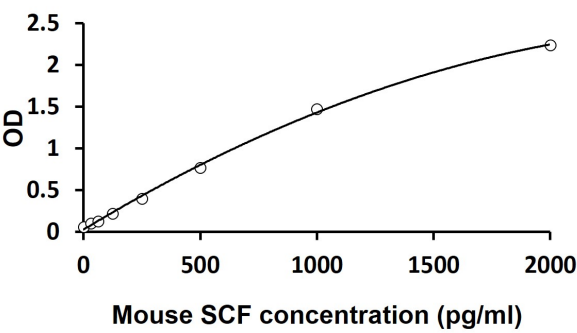
| | |
|------------|-----------|
| Assay Time | ~ 5 hours |
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Properties

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| 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

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| 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] |



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.