

Human Mast/stem cell growth factor receptor (KIT) ELISA Kit



Catalog No: #EK10217

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Package Size: #EK10217-1 48T #EK10217-2 96T

Support: tech@signalwayantibody.com

Description

Product Name	Human Mast/stem cell growth factor receptor (KIT) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	C-Kit; CD117; PBT; SCFR; mast/stem cell growth factor receptor proto-oncogene tyrosine-protein kinase Kit soluble KIT variant 1
Storage	<p>The stability of ELISA kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition.</p> <p>The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).</p>

Application Details

Detect Range:1.56-100 ng/mL

Sensitivity:0.59 ng/mL

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 µL

Assay Time:1-4.5h

Detection wavelength:450 nm

Product Description

Detection Method:SandwichTest principle:This assay employs a two-site sandwich ELISA to quantitate KIT in samples. An antibody specific for KIT has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyKIT present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for KIT is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of KIT bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**Stem cell factor Receptor(SCFR;CD117), also called KIT or C-kit receptor, is a cytokine receptor expressed on the surface of hematopoietic stem cells as well as other cell types. This receptor binds to stem cell factor (a substance that causes certain types of cells to grow). Altered forms of this receptor may be associated with some types of cancer.C-kit was first identified as the cellular homolog of the feline sarcoma viral oncogene v-kit. This protein is a type 3 transmembrane receptor for MGF (mast cell growth factor, also known as stem cell factor). Mutations in its encoded gene are associated with gastrointestinal stromal tumors, mast cell disease, acute myelogenous leukemia, and piebaldism. Multiple transcript variants encoding different isoforms have been found for this gene.

Note: This product is for in vitro research use only