

Recombinant Protein Technical Manual Recombinant Human c-KIT/CD117 Protein (Fc Tag)(Active) RPES0468

Product Data:

Product SKU: RPES0468 Si	i ze: 20μg
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Species: Human

Expression host: HEK293 Cells

Uniprot: P10721-2

Protein	Inform	nation
FIOLEIII		

Molecular Mass:	82 kDa
AP Molecular Mass:	9315 kDa
Tag:	C-Fc
Bio-activity:	Measured by its binding ability in a functional ELISA. Immobilized human KIT-Fc at 10 μg/ml (100 μl/well) can bind biotinylated mouse KITL-His (189), The EC50 of biotinylated mouse KITL-His (189)) is 2.87-6.71 ng/ml.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Endotoxin:	< 1.0 EU per μg as determined by the LAL method.
Storage:	Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Shipping:	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation:	Lyophilized from sterile PBS, pH 7.4
Reconstitution:	Please refer to the printed manual for detailed information.
Application:	Functional ELISA
Synonyms:	Mast/stem cell growth factor receptor Kit; SCFR; Piebald trait protein; PBT; Proto- oncogene c-Kit; Tyrosine-protein kinase Kit; p145 c-kit; v-kit Hardy-Zuckerman 4 feline sarcoma viral oncogene homolog; CD117;PBT

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Immunogen Information:

Sequence: Met 1-Thr516

Background:

C-Kit is a type 3 transmembrane receptor for MGF (mast cell growth factor, also known as stem cell factor). c-Kit contains 5 Ig-like C2-type (immunoglobulin-like) domains. and 1 protein kinase domain. It belongs to the protein kinase superfamily, tyr protein kinase family and CSF/PDGF receptor subfamily. C-Kit contains 5 Ig-like C2-type (immunoglobulin-like) domains and 1 protein kinase domain. C-Kit has a tyrosine-protein kinase activity. Binding of the ligands leads to the autophosphorylation of KIT and its association with substrates such as phosphatidylinositol 3-kinase. Antibodies to c-Kit are widely used in immunohistochemistry to help distinguish particular types of tumour in histological tissue sections. It is used primarily in the diagnosis of GISTs. In GISTs, c-Kit staining is typically cytoplasmic, with stronger accentuation along the cell membranes. C-Kit antibodies can also be used in the diagnosis of mast cell tumours and in distinguishing seminomas from embryonal carcinomas. Mutations in c-Kit gene are associated with gastrointestinal stromal tumors, mast cell disease, acute myelogenous lukemia, and piebaldism. Defects in KIT are a cause of acute myelogenous leukemia (AML). AML is a malignant disease in which hematopoietic precursors are arrested in an early stage of development. Note=Somatic mutations that lead to constitutive activation of KIT are detected in AML patients.