

## Kit

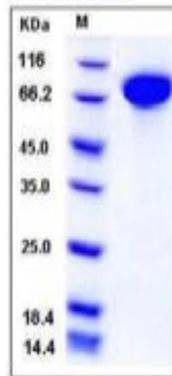
### Recombinant Mouse c-Kit / CD117 (His Tag)

<b>Catalog No.</b>	CRM636A-His CRM636B-His	<b>Quantity:</b>	50 µg 100 µg
<b>Alternate Names:</b>	Mast/stem cell growth factor receptor Kit, SCFR, Proto-oncogene c-Kit, Tyrosine-protein kinase Kit, CD117		
<b>Description:</b>	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-1/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 ligand leads to the autophosphorylation of KIT and its association with substrates such as phosphatidylinositol 3-kinase. c-Kit antibodies can also be used in the diagnosis of mast cell tumors and in distinguishing seminomas from embryonal carcinomas. Mutations in c-Kit gene are associated with gastrointestinal stromal tumors, mast cell disease, acute myelogenous leukemia, Hirschsprung's disease 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.		
<b>UniProt ID:</b>	P05532-1		
<b>Accession Number:</b>	NP_001116205.1		
<b>Protein Construction:</b>	A DNA sequence encoding the mouse KIT isoform 1 extracellular domain (Met 1-Thr 523) was fused with a polyhistidine tag at the C-terminus.		
<b>Source:</b>	HEK293 Cells		
<b>Formulation:</b>	Lyophilized from sterile PBS, pH 7.4 Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.		
<b>Molecular Weight:</b>	The secreted rmKIT consists of 510 aa with a predicted MW of 57 kDa and migrates at ~70-80 kDa in SDS-PAGE under reducing conditions, due to glycosylation.		
<b>Purity:</b>	> 97 % as determined by SDS-PAGE.		
<b>Endotoxin Level:</b>	< 1.0 EU per µg of the protein as determined by the LAL method		
<b>Biological Activity:</b>	Measured by its binding ability in a functional ELISA . Immobilized mouse KIT at 2 µg/ml (100 µl/well) can bind biotinylated mouse KITL with a linear ranger of 1.28-6.4 ng/ml.		
<b>Predicted N-terminal:</b>	Ser 25		
<b>Reconstitution:</b>	<b>Centrifuge vial prior to opening.</b> Add sterile distilled water to a concentration of 0.1 mg/mL and gently pipette the solution up and down the sides of the vial. <b>DO NOT VORTEX.</b> Allow several minutes for complete reconstitution.		

**Storage & Stability:**

Stable for up to 1 year from date of receipt at  $-20^{\circ}\text{C}$  to  $-80^{\circ}\text{C}$   
After reconstitution, store working aliquots at  $-20^{\circ}\text{C}$  to  $-80^{\circ}\text{C}$ .  
**Avoid repeated freeze-thaw cycles.**

SDS-PAGE



**NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.**



**Cell Sciences®**  
65 Parker Street  
Unit 11  
Newburyport, MA 01950

Toll Free: 888-769-1246  
Phone: 978-572-1070  
Fax: 978-992-0298

E-mail: [info@cellsciences.com](mailto:info@cellsciences.com)  
Website: [www.cellsciences.com](http://www.cellsciences.com)