# Active Recombinant Monkey KIT Protein, Fc-tagged

**Cat. No.** KIT-11033M **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | Rhesus macaque CD117, Fc Tag is expressed from human 293 cells (HEK293). It contains AA Gln 26 - Thr 520 (Accession # NP_001253024.1). This protein carries a human IgG1 Fc tag at the C-terminus. Predicted N-terminus: Gln 26 |
| **Species** | Monkey |
| **Source** | HEK293 |
| **ProteinLength** | 26-520 aa |
| **Description** | Mast/stem cell growth factor receptor Kit (c-Kit), a member of the protein kinase superfamily, Tyr protein kinase family and CSF-1/PDGF receptor subfamily, is also known as piebald trait protein (PBT), p145 c-kit, tyrosine-protein kinase Kit and CD117, which contains five Ig-like C2-type (immunoglobulin-like) domains and one protein kinase domain. CD117 acts as cell-surface receptor for the cytokine KITLG/SCF and 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. In response to KITLG/SCF binding, CD117 can activate several signaling pathways. Furthermore, Activated KIT promotes phosphorylation of the protein phosphatases PTPN6/SHP-1 and PTPRU, and of the transcription factors STAT1, STAT3, STAT5A and STAT5B. |
| **Form** | Lyophilized from 0.22 μm filtered solution in 50 mM Tris, 100 mM Glycine, 25 mM Arginine, 150 mM NaCl, pH7.5 with trehalose as protectant. |

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| **Bio-activity** | Immobilized Rhesus macaque CD117, Fc Tag at 2 μg/mL (100 μL/well) can bind Human SCF protein, His Tag with a linear range of 0.2-2 ng/mL. |
| **Molecular Mass** | The protein has a calculated MW of 82 kDa. The protein migrates as 100-120 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation. |
| **Endotoxin** | Less than 1.0 EU/μg by the LAL method/rFC method. |
| **Purity** | >95% as determined by SDS-PAGE. |
| **Storage** | This product is stable after storage at: -20 to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution. For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please avoid repeated freeze-thaw cycles. |
| **Reconstitution** | It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 μg/μL. Centrifuge the vial at 4 centigrade before opening to recover the entire contents. |

## GENE INFORMATION

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| **Gene Name** | KIT KIT proto-oncogene, receptor tyrosine kinase [ Macaca mulatta (Rhesus monkey) ] |
| **Official Symbol** | KIT |
| **Synonyms** | KIT; KIT proto-oncogene, receptor tyrosine kinase; mast/stem cell growth factor receptor Kit; Mast/stem cell growth factor receptor; EC 2.7.10.1 |
| **Gene ID** | 696759 |

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| **mRNA Refseq** | NM_001266095 |
| **Protein Refseq** | NP_001253024 |
| **UniProt ID** | F6V858 |

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