

Human CellExp™ CD117 / c-kit, Human Recombinant

CATALOG NO: P1497-10 10 µg
P1497-50 50 µg

ALTERNATE NAMES: CD117, SCFR, c-Kit, KIT

MOL. WT. This protein carries a polyhistidine tag at the C-terminus. The protein has a calculated MW of 57.1 kDa. The protein migrates as 66-85 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation

SOURCE: HEK 293 cells

PURITY: >95% SDS-PAGE

ENDOTOXIN: Less than 1.0 EU per µg by the LAL method.

FORM: Lyophilized

FORMULATION: Lyophilized from 0.22 µm filtered solution in PBS, pH7.4. Normally trehalose is added as protectant before lyophilization.

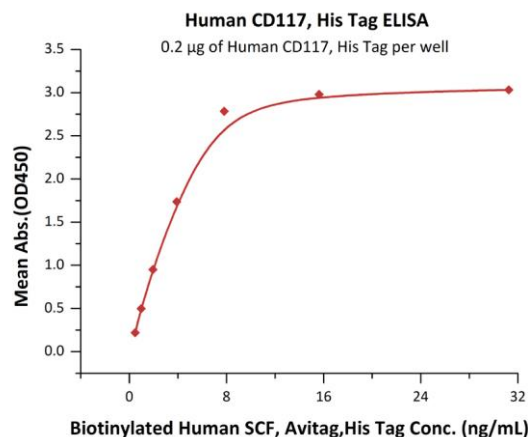
RECONSTITUTION: Reconstitute in sterile deionized water to the desired protein concentration.

SPECIFIC ACTIVITY: Immobilized Human CD117, His Tag at 2 µg/mL (100 µL/well) can bind Biotinylated Human SCF, Avitag, His Tag with a linear range of 0.5-8 ng/mL

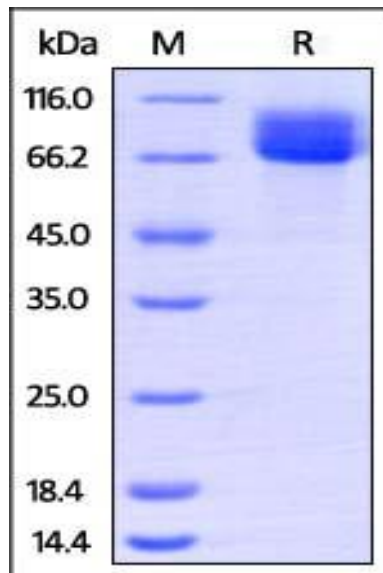
STORAGE CONDITIONS: Store at -20°C. After reconstitution, aliquot and store at -80°C and use within 3 months. Avoid repeated freezing and thawing cycles.

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.

AMINO ACID SEQUENCE: AA Gln 26 - Thr 516



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Human CD117, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

RELATED PRODUCTS:

- SCFR/c-Kit (Human) ELISA Kit (K4183)
- Anti-CD117/c-Kit Antibody (C117/370) (A1471)
- C-Kit/CD117 Antibody (NT) (6777)

FOR RESEARCH USE ONLY! Not to be used on humans.