RP00432

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Recombinant Human c-Kit/CD117 Protein

Catalog No.: RP00432 Recombinant

Sequence Information

Species	Gene ID	Swiss Prot
HEK293 cells	3815	P10721-2

Tags
C-His

Synonyms
SCFR; PBT; CD117; ckit; c-kit; EC 2.7.10; EC 2.7.10.1; KIT

Product Information

Source	Purification
HEK293 cells	> 95% by SDS-PAGE ; > 95% by HPLC

Endotoxin
< 1 EU/μg of the protein by LAL method

Formulation
Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.

Reconstitution
Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Contact

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Background

The c-kit proto-oncogen (CD 117) has been shown to be present in several cell types including normal and neoplastic hemopoietic cells. Among normal BM cells, CD117 expression has been found in about half of the CD34 precursors including progenitors committed to the erythroid, granulo-monocytic, and megakaryocytic cell lineages.

Basic Information

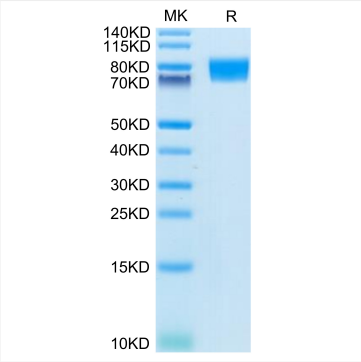
Description
Recombinant Human c-Kit/CD117 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Gln26-Thr516) of Human CD117 (Accession #P10721-2) fused with a C-His tag at the C-terminus.

Bio-Activity

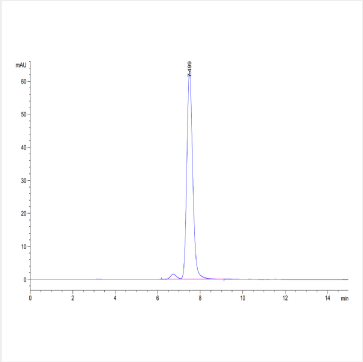
Storage
Store at -20℃.Store the lyophilized protein at -20℃ to -80 ℃ up to 1 year from the date of receipt.
After reconstitution, the protein solution is stable at -20℃ for 3 months, at 2-8℃ for up to 1 week.
Avoid repeated freeze/thaw cycles.

* For your safety and health, please wear a lab coat and disposable gloves when handling.

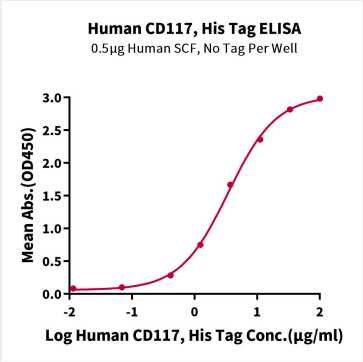
Validation Data



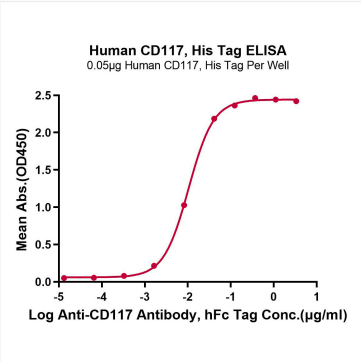
Human CD117 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.



The purity of Human CD117 is greater than 95% as determined by SEC-HPLC.



Immobilized Human SCF at 5 μg/mL (100 μL/well) on the plate. Dose response curve for Human CD117, His Tag with the EC_{50} of 3.42 μg/mL determined by ELISA (QC Test).



Immobilized Human CD117, His Tag at 0.5 μg/mL (100 μL/well) on the plate. Dose response curve for Anti-CD117 Antibody, hFc Tag with the EC_{50} of 10.5ng/mL determined by ELISA.