

Human CD117 Protein, Ultra Low Endotoxin



Cat. No. CD1-HM117-UL

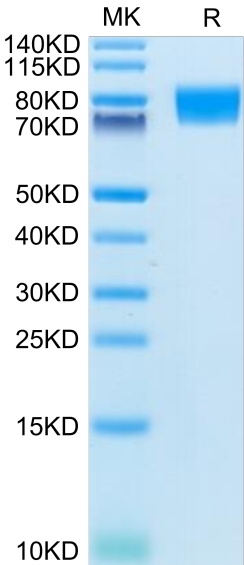
Description	
Source	Recombinant Human CD117 Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Gln26-Thr516.
Accession	P10721-2
Molecular Weight	The protein has a predicted MW of 56.3 kDa. Due to glycosylation, the protein migrates to 70-100 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 0.01 EU per µg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

Formulation and Storage	
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

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.	

Assay Data

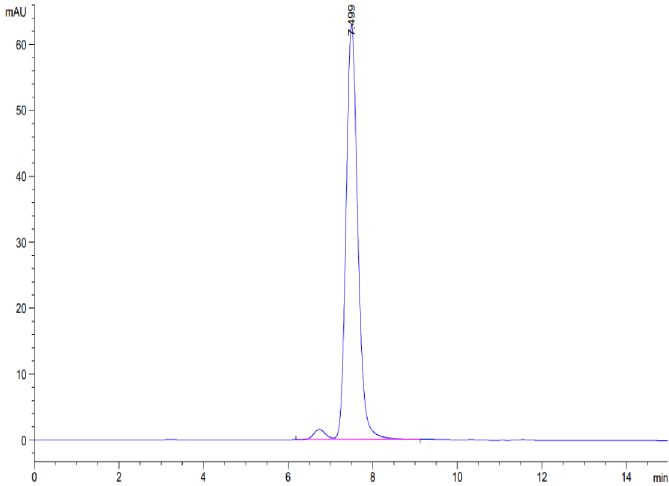
Bis-Tris PAGE



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

SEC-HPLC

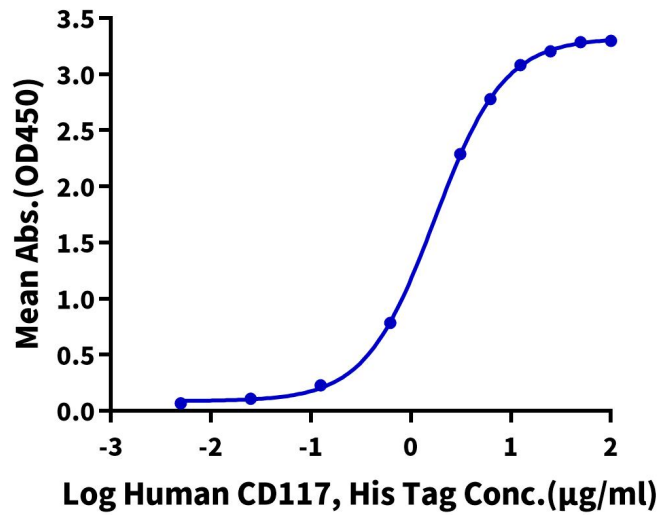
Assay Data



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

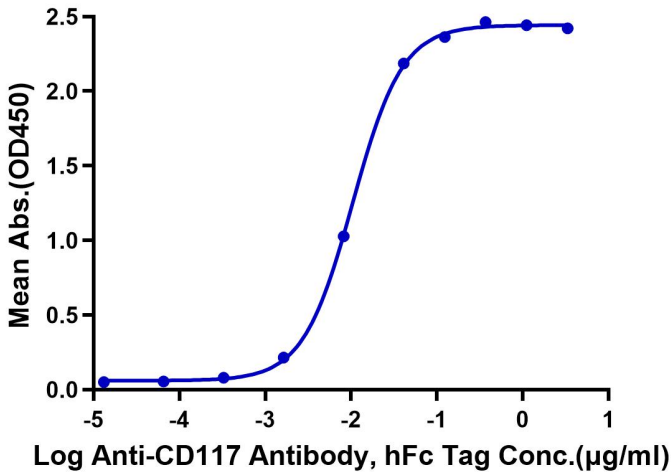
ELISA Data

Human CD117, His Tag ELISA
0.5µg Human SCF, No Tag Per Well



Immobilized Human SCF at 5µg/ml (100µl/well) on the plate. Dose response curve for Human CD117, His Tag with the EC50 of 1.73µg/ml determined by ELISA.

Human CD117, His Tag ELISA
0.05µg Human CD117, His Tag Per Well



Immobilized Human CD117, His Tag at 0.5µg/ml (100µl/well) on the plate. Dose response curve for Anti-CD117 Antibody, hFc Tag with the EC50 of 10.5ng/ml determined by ELISA.

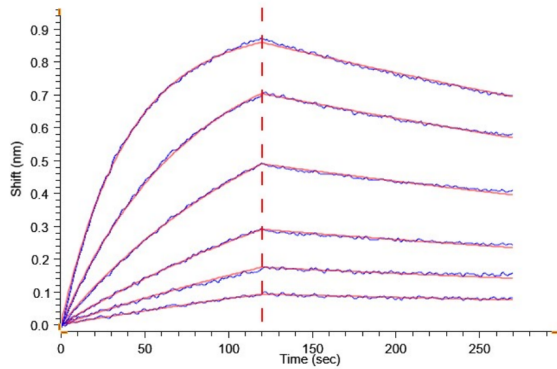
BLI Data

Human CD117 Protein, Ultra Low Endotoxin

Cat. No. CD1-HM117-UL



Assay Data



Loaded Anti-CD117 Ab., hFc Tag on ProA-Biosensor can bind Human CD117, His Tag with an affinity constant of 6.08 nM as determined in BLI assay (Gator® Prime).