

## **PRODUCT INFORMATION**

CD117 **Target** 

C-Kit;CD117;MASTC;PBT;SCFR;KIT Synonyms

Recombinant human CD117 protein with C-**Description** 

terminal 6×His tag

**Delivery** In Stock **Uniprot ID** P10721 **Expression Host HEK293** Tag C-6×His Tag

Molecular Characterization

Reconstitution

**Background** 

Storage & Shipping

Purity

CD117(Gln26-Thr520) 6×His tag

The protein has a predicted molecular mass of **Molecular Weight** 

56.5 kDa after removal of the signal peptide. The apparent molecular mass of CD117-His is

approximately 70-100 kDa due to glycosylation.

The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue

staining.

Lyophilized from sterile PBS, pH 7.4. Normally 5 % Formulation &

- 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis

for specific instructions of reconstitution. Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not

intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient

temperature.

This gene encodes a receptor tyrosine kinase. This gene was initially identified as a homolog of the feline sarcoma viral oncogene v-kit and is

often referred to as proto-oncogene c-Kit. The canonical form of this glycosylated transmembrane protein has an N-terminal extracellular region with five immunoglobulin-like

domains, a transmembrane region, and an intracellular tyrosine kinase domain at the Cterminus. Upon activation by its cytokine ligand, stem cell factor (SCF), this protein phosphorylates multiple intracellular proteins that play a role in in the proliferation, differentiation, migration and

apoptosis of many cell types and thereby plays an important role in hematopoiesis, stem cell maintenance, gametogenesis, melanogenesis, and in mast cell development, migration and function. This protein can be a membrane-bound or soluble protein. Mutations in this gene are associated with gastrointestinal stromal tumors, mast cell disease, acute myelogenous leukemia, and piebaldism. Multiple transcript variants

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encoding different isoforms have been found for this gene. [provided by RefSeq, May 2020]

Usage Research use only

Conjugate Unconjugated

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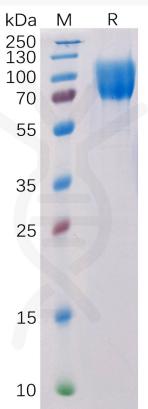


Figure 1. Human CD117 Protein, His Tag on SDS-PAGE under reducing condition.

## Human CD117, His tagged protein ELISA

 $0.2~\mu g$  of Human CD117, His tagged protein per well

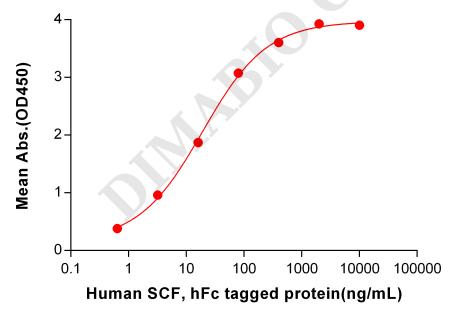


Figure 2. ELISA plate pre-coated by 1  $\mu$ g/ml (100  $\mu$ l/well) Human CD117, His tagged protein (PME100519) can bind Human SCF, hFc tagged protein PME100563 in a linear range of 3.2-400 ng/ml.

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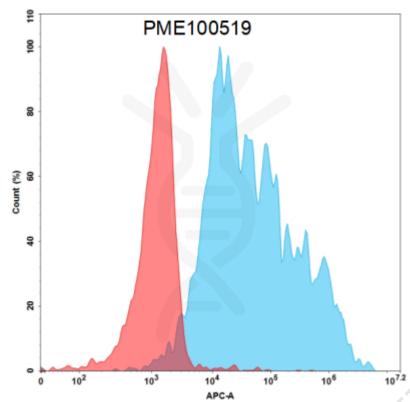


Figure 3. Flow cytometry analysis with 15  $\mu$ g/mL Human CD117 Protein, His tag (PME100519) on Expi293 cells transfected with human SCF (Blue histogram) or Expi293 transfected with irrelevant protein (Red histogram).

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