

## HUMAN SCF PROTEIN, HFC TAG

**Cat.#:** 11364

**Product Name:** Human SCF Protein

**Size:** 10 µg, 50 µg and 100 µg

**Synonyms:** DCUA;DFNA69;FPH2;FPHH;Kitl;KL-1;MGF;SCF;SF;SHEP7;SLF

**Target:** SCF

**UNIPROT ID:** P21583

**Description:** Recombinant human SCF protein with C-terminal human Fc tag

**Background:** This gene encodes the ligand of the tyrosine-kinase receptor encoded by the KIT locus. This ligand is a pleiotropic factor that acts in utero in germ cell and neural cell development, and hematopoiesis, all believed to reflect a role in cell migration. In adults, it functions pleiotropically, while mostly noted for its continued requirement in hematopoiesis. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

**Species/Host:** HEK293

**Molecular Weight:** The protein has a predicted molecular mass of 47.2 kDa after removal of the signal peptide. The apparent molecular mass of SCF-hFc is approximately 55-75 kDa due to glycosylation.

**Molecular Characterization:** SCF(Glu26-His214) hFc(Glu99-Ala330)

**Purity:** The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue staining.

**Formulation & Reconstitution:** Lyophilized from nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0). Normally 5% – 8% trehalose is added as protectants before lyophilization.

**Storage & Shipping:** 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.

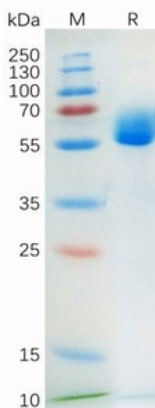


Figure 1. Human SCF Protein, hFc Tag on SDS-PAGE under reducing condition.

### Human SCF, hFc tagged protein ELISA

0.2 µg of Human CD117, His tagged protein per well

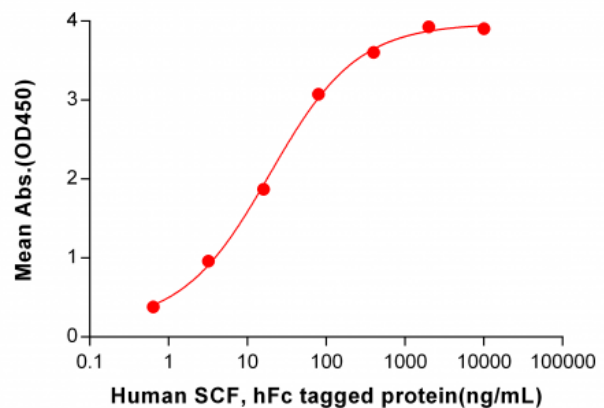


Figure 2. ELISA plate pre-coated by 1 µg/ml (100 µl/well) Human CD117, His tagged protein 11321 can bind Human SCF, hFc tagged protein (11364) in a linear range of 3.2-400 ng/ml.