

Datasheet for ABIN2870619  
**KIT Protein (AA 26-516) (Fc Tag)**[Go to Product page](#)

## 3 Images

## Overview

|                               |   |
|-------------------------------|---|
| Quantity:                     | 100 µg                                    |
| Target:                       | KIT                                       |
| Protein Characteristics:      | AA 26-516                                 |
| Origin:                       | Human                                     |
| Source:                       | HEK-293 Cells                             |
| Protein Type:                 | Recombinant                               |
| Biological Activity:          | Active                                    |
| Purification tag / Conjugate: | This KIT protein is labelled with Fc Tag. |

## Product Details

|                  |  |
|------------------|--|
| Sequence:        | AA 26-516  |
| Characteristics: | This protein carries a human IgG1 Fc tag at the C-terminus. The protein has a calculated MW of 81.9 kDa. The protein migrates as 100-125 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation. |
| Purity:          | >95 % as determined by SDS-PAGE.   |
| Endotoxin Level: | Less than 1.0 EU per µg by the LAL method.   |

## Target Details

|                   |  |
|-------------------|--|
| Target:           | KIT                                    |
| Alternative Name: | CD117 ( <a href="#">KIT Products</a> ) |

## Target Details

**Background:** 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.

**Molecular Weight:** 81.9 kDa

**Pathways:** [RTK Signaling](#), [Fc-epsilon Receptor Signaling Pathway](#), [EGFR Signaling Pathway](#), [Neurotrophin Signaling Pathway](#), [Sensory Perception of Sound](#), [Stem Cell Maintenance](#), [Production of Molecular Mediator of Immune Response](#), [Regulation of long-term Neuronal Synaptic Plasticity](#)

## Application Details

**Restrictions:** For Research Use only

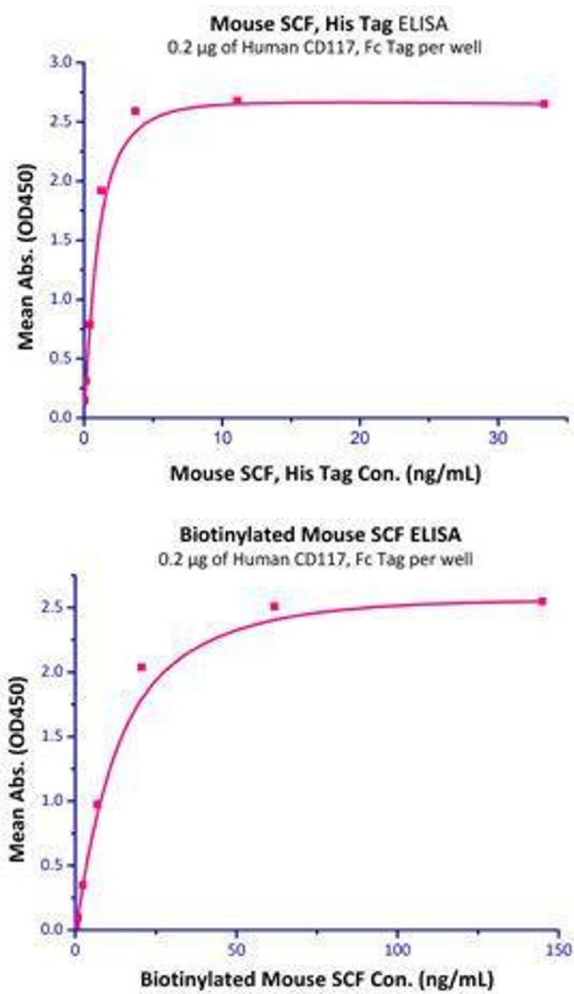
## Handling

**Format:** Lyophilized

**Buffer:** Tris with Glycine, Arginine and NaCl, pH 7.5

**Handling Advice:** Please avoid repeated freeze-thaw cycles.

**Storage:** -20 °C

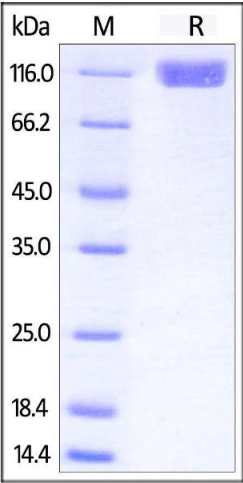


Binding Studies

**Image 1.** Immobilized Human CD117, Fc Tag (Cat# CD7-H5255) at 2 µg/mL (100 µl/well) can bind Mouse SCF, His Tag (Cat# SCF-M5228) with a linear range of 0.05-1.2 ng/mL.

Binding Studies

**Image 2.** Immobilized Human CD117, Fc Tag (Cat# CD7-H5255) at 2 µg/mL (100 µl/well) can bind Biotinylated Mouse SCF (Cat# SCF-M8228) with a linear range of 0.25-20 ng/mL.



SDS-PAGE

**Image 3.** Human CD117, Fc 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%.