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Datasheet for ABIN2870617

## KIT Protein (AA 26-516) (His tag)

### 2 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 His tag.

#### Product Details

Sequence:	AA 26-516
Characteristics:	This protein carries a polyhistidine tag at the C-terminus. The protein has a calculated MW of 57.1 kDa. The protein migrates as 66-85 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

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**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.

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**Molecular Weight:** 57.1 kDa

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**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

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**Restrictions:** For Research Use only

## Handling

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**Format:** Lyophilized

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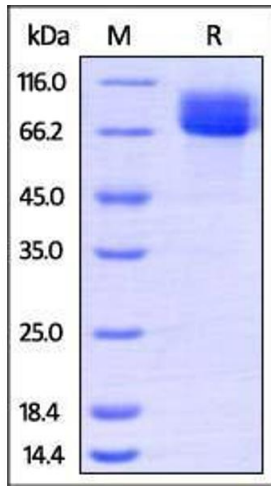
**Buffer:** PBS, pH 7.4

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

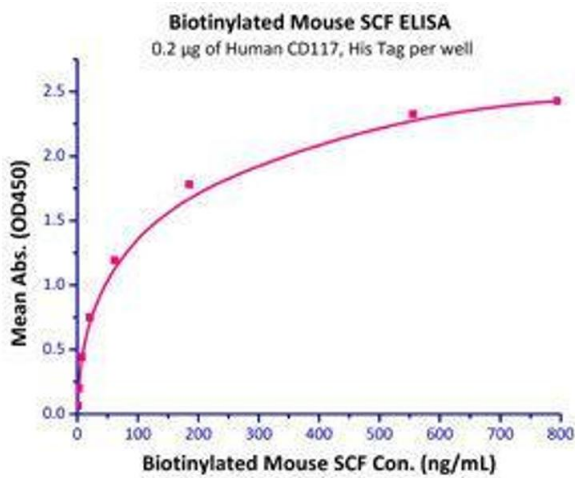
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**Storage:** -20 °C



### SDS-PAGE

**Image 1.** Human CD117, His 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%.



### Binding Studies

**Image 2.** Immobilized Human CD117, His Tag (Cat# CD7-H52H4) at 2 µg/mL (100 µl/well) can bind Biotinylated Mouse SCF (Cat# SCF-M8228) with a linear range of 0.8-62 ng/mL.