

Datasheet for ABIN7597287

## KIT Protein (AA 26-120) (Fc Tag)



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### Overview

|                               |                                           |
|-------------------------------|-------------------------------------------|
| Quantity:                     | 10 µg                                     |
| Target:                       | KIT                                       |
| Protein Characteristics:      | AA 26-120                                 |
| Origin:                       | Human                                     |
| Source:                       | HEK-293 Cells                             |
| Protein Type:                 | Recombinant                               |
| Purification tag / Conjugate: | This KIT protein is labelled with Fc Tag. |

### Product Details

|           |                                                                                                       |
|-----------|-------------------------------------------------------------------------------------------------------|
| Purpose:  | Recombinant human CD117(26-120) Protein with C-terminal human Fc tag                                  |
| Sequence: | CD117(Gln26-Val120) hFc(Glu99-Ala330)                                                                 |
| Purity:   | The purity of the protein is greater than 95 % as determined by SDS-PAGE and Coomassie blue staining. |

### Target Details

|                   |                                                                                                                                                                                                                                                                                                                                     |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Target:           | KIT                                                                                                                                                                                                                                                                                                                                 |
| Alternative Name: | CD117 ( <a href="#">KIT Products</a> )                                                                                                                                                                                                                                                                                              |
| Background:       | <p>PBT, SCFR, C-Kit, KIT, MASTC</p> <p>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</p> |

## Target Details

region with five immunoglobulin-like domains, a transmembrane region, and an intracellular tyrosine kinase domain at the C-terminus. Upon activation by its cytokine ligand, stem cell factor (SCF), this protein phosphorylates multiple intracellular proteins that play a role 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 encoding different isoforms have been found for this gene. [provided by RefSeq, May 2020]

**Molecular Weight:** predicted molecular mass of 36.7 kDa after removal of the signal peptide. The apparent molecular mass of CD117(26-120)-hFc is 35-55 kDa due to glycosylation.

**UniProt:** [P10721](#)

**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

**Application Notes:** Extracellular Domain Proteins (ECD) can be used as:

- Immunogens for antibody drug development
- Reagents used for CAR-T positive cell monitoring
- Reagents for antibody screening and functional testing
- Reagents for antibody affinity measurement

**Comment:** The protein was made using HEK293 mammalian cell secretion expression system to ensure the close-to-native structures and post-translational modifications of the target protein.

**Restrictions:** For Research Use only

## Handling

**Format:** Lyophilized

**Buffer:** Lyophilized from sterile PBS, pH 7.4. Normally 5 % – 8% trehalose is added as protectants before lyophilization.

**Storage:** -20 °C, -80 °C

**Storage Comment:** Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for

## Handling

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use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing).

Lyophilized proteins are shipped at ambient temperature.

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Expiry Date: 12 months