

For Research Use Only

Recombinant Human CD117/c-kit protein (rFc Tag)



Catalog Number: Eg1992

Basic Information

Species:
Human

Purity:
>90 %, SDS-PAGE

Tag:
rFc Tag

Technical Specifications

Purity:

>90 %, SDS-PAGE

Endotoxin Level:

<0.1 EU/μg protein, LAL method

Source:

HEK293-derived Human CD117 protein Gln26-Thr516 (Accession# P10721-2) with a rabbit IgG Fc tag at the C-terminus.

GeneID:

3815

Accession:

P10721-2

Predicted Molecular Mass:

81.5 kDa

SDS-PAGE:

85-125 kDa, reducing (R) conditions

Formulation:

Lyophilized from 0.22 μm filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

Biological Activity

Not tested

Storage and Shipping

Storage:

It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C under sterile conditions after reconstitution.

Shipping:

The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

Background

CD117, also known as c-Kit and SCFR, is a transmembrane protein with tyrosine kinase activity encoded by the oncogene c-kit. It is a member of the type III receptor tyrosine kinase family, which also includes CSF-1R, PDGFRβ, PDGFRα, and FLT3. CD117 is expressed on hematopoietic stem cells and progenitor cells, mast cells, and is also found in a wide range of non-haemopoietic cell types (including melanocytes, germ cells, astrocytes, renal tubules, breast glandular epithelial cells, sweat glands, and interstitial cells of Cajal). CD117 plays an important role in early hemopoiesis. It is also involved in pigmentation, fertility, gut movement, and some aspects of the nervous system.

References

1. Y Yarden, et al. (1987). EMBO J. 6(11):3341-51.
2. Brittni M Foster, et al. (2018). Biomedicines. 6(1):31.
3. L K Ashman, et al. (1999). Int J Biochem Cell Biol. 31(10):1037-51.
4. Johan Lennartsson, et al. (2012). Physiol Rev. 92(4):1619-49.

Synonyms

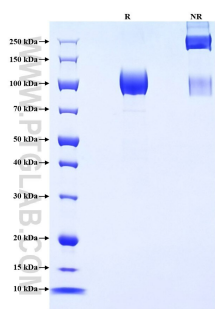
CD117, KIT, C Kit, c-Kit, EC:2.7.10.1

For technical support and original validation data for this product please contact

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Selected Validation Data



Purity of Recombinant Human CD117 was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.