

# PE Anti-Human CD117 (104D2)

Catalog Number: **PE-65154**

## Basic Information

**Catalog Number:**

PE-65154

**Size:**

100 tests, 20 µl/test

**Source:**

Mouse

**Isotype:**

IgG1, kappa

**GenBank Accession Number:**

BC071593

**GeneID (NCBI):**

3815

**Full Name:**

v-kit Hardy-Zuckerman 4 feline  
sarcoma viral oncogene homolog

**Calculated MW:**

976 aa, 110 kDa

**Purification Method:**

The purified antibody is conjugated with R-phycoerythrin (PE) under optimum conditions. The conjugate is purified by size-exclusion chromatography.

**CloneNo.:**

104D2

**Excitation/Emission maxima wavelengths:**

496 nm, 565 nm / 578 nm

## Applications

**Tested Applications:**

FC

**Species Specificity:**

Human, Bovine

## Background Information

CD117, also known as c-Kit and SCFR, is a transmembrane protein with tyrosine kinase activity encoded by the oncogene c-kit (PMID: 2448137). It is a member of the type III receptor tyrosine kinase family, which also includes CSF-1R, PDGFR $\beta$ , PDGFR $\alpha$ , and FLT3 (PMID: 29518044). 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) (PMID: 10582338; 23073628). CD117 plays an important role in early haemopoiesis. It is also involved in pigmentation, fertility, gut movement, and some aspects of the nervous system (PMID: 23073628).

## Storage

**Storage:**

Store at 2-8°C. Avoid exposure to light. Stable for one year after shipment.

**Storage Buffer:**

PBS with 0.1% sodium azide.

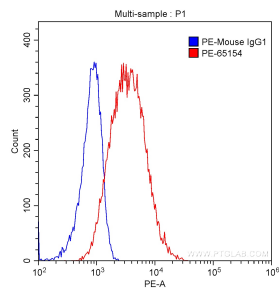
For technical support and original validation data for this product please contact:

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## Selected Validation Data



1X10<sup>6</sup> TF-1 cells were surface stained with 20.00 ul/test PE Anti-Human CD117 (PE-65154, Clone:104D2) (red) or isotype control antibody (blue). Cells were not fixed.