

For Research Use Only

# APC Anti-Human CD117/c-Kit (104D2)

Catalog Number: APC-65154



## Basic Information

### Catalog Number:

APC-65154

### Size:

100 tests, 10 µl/test

### Source:

Mouse

### Isotype:

IgG1, kappa

### GenBank Accession Number:

BC071593

### GeneID (NCBI):

3815

### UNIPROT ID:

P10721

### 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 allophycocyanin (APC) under optimum conditions. The conjugate is purified by size-exclusion chromatography.

### CloneNo.:

104D2

### Excitation/Emission maxima wavelengths:

650 nm / 660 nm

## Applications

### Tested Applications:

FC

### Species Specificity:

human, bovine

### Positive Controls:

FC : TF-1 cells,

## 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 0.09% sodium azide, pH7.3

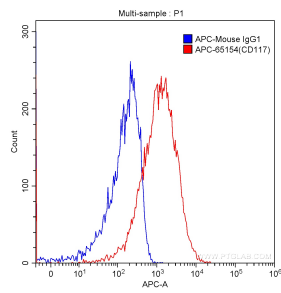
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## Selected Validation Data



1X10<sup>6</sup> TF-1 cells were surface stained with 10.00 ul/test APC Anti-Human CD117 (APC-65154, Clone:104D2) (red) or isotype control antibody (blue). Cells were not fixed.