

For Research Use Only

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

Catalog Number: 65154-1-Ig



## Basic Information

### Catalog Number:

65154-1-Ig

### Size:

100ug, 1 mg/ml

### 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:

Purified by protein-A affinity  
chromatography

### CloneNo.:

104D2

## 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. Stable for one year after shipment.

### Storage Buffer:

PBS with 0.1% sodium azide.

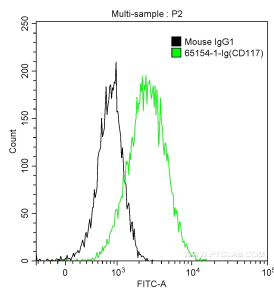
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## Selected Validation Data



1X10<sup>6</sup> TF-1 cells were surface stained with 1.5 ug Anti-Human CD117 (65154-1-Ig, Clone:104D2) and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) at dilution 1:1000 (green), or stained with 1.5 ug Mouse IgG1 Isotype Control Antibody and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) at dilution 1:1000 (black). Cells were not fixed.