

# APC Anti-Mouse CD117 (c-Kit) (ACK2)

Catalog Number: APC-65094

## Basic Information

**Catalog Number:**

APC-65094

**Size:**

100ug, 0.2 mg/ml

**Source:**

Rat

**Isotype:**

IgG2b, kappa

**GenBank Accession Number:**

BC052457

**GeneID (NCBI):**

16590

**UNIPROT ID:**

P05532

**Full Name:**

kit oncogene

**Purification Method:**

Affinity purification

**CloneNo.:**

ACK2

**Excitation/Emission maxima wavelengths:**

650 nm / 660 nm

## Applications

**Tested Applications:**

FC

**Species Specificity:**

Mouse

## 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

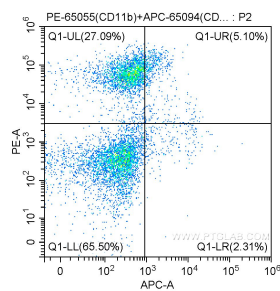
**Storage:**

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

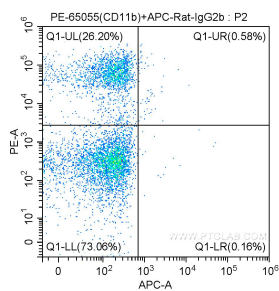
**Storage Buffer:**

Phosphate based buffer with 0.09% sodium azide and 0.1% gelatin, pH 7.2.

## Selected Validation Data



1X10<sup>6</sup> C57BL/6 mouse bone marrow cells were surface stained with 0.20 ug PE-Anti-Mouse CD11b (PE-65055, clone M1/70) and 0.20 ug APC-Anti-Mouse CD117 (c-Kit) (APC-65094, clone ACK2). Cells were not fixed.



1X10<sup>6</sup> C57BL/6 mouse bone marrow cells were surface stained with 0.20 ug PE-Anti-Mouse CD11b (PE-65055, clone M1/70) and 0.20 ug APC-Rat IgG2b isotype control. Cells were not fixed.