

# CoraLite® Plus 647 Anti-Mouse CD117 (c-Kit) (ACK2)

Catalog Number: **CL647-65094**

## Basic Information

<b>Catalog Number:</b> CL647-65094	<b>GenBank Accession Number:</b> BC052457	<b>Purification Method:</b> Affinity purification
<b>Size:</b> 100tests, 5 µl/test	<b>GeneID (NCBI):</b> 16590	<b>CloneNo.:</b> ACK2
<b>Source:</b> Rat	<b>UNIPROT ID:</b> P05532	<b>Excitation/Emission maxima wavelengths:</b> 654 nm / 674 nm
<b>Isotype:</b> IgG2b, kappa	<b>Full Name:</b> kit oncogene	

## Applications

**Tested Applications:**  
FC  
**Species Specificity:**  
Mouse

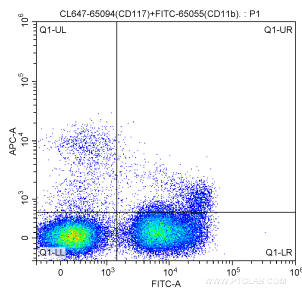
## Background Information

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).

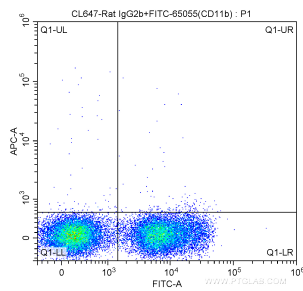
## Storage

**Storage:**  
Store at 2-8°C. Avoid exposure to light. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.1% sodium azide and 0.5% BSA, pH 7.3.

## Selected Validation Data



1X10<sup>6</sup> C57BL/6 mouse bone marrow cells were surface stained with FITC-Anti-Mouse CD11b (FITC-65055, Clone: M1/70) and 5.00 ul CoraLite® Plus 647-conjugated Anti-Mouse CD117 (c-Kit) (CL647-65094, Clone: ACK2). Cells were not fixed.



1X10<sup>6</sup> C57BL/6 mouse bone marrow cells were surface stained with FITC-Anti-Mouse CD11b (FITC-65055, Clone: M1/70) and CoraLite® Plus 647-conjugated Rat IgG2b isotype control antibody. Cells were not fixed.