

For Research Use Only

# CoraLite®594 Anti-Mouse CD117/c-Kit (2B8)



Catalog Number: **CL594-65054**

## Basic Information

<b>Catalog Number:</b> CL594-65054	<b>GenBank Accession Number:</b> BC052457	<b>Purification Method:</b> Affinity purification
<b>Size:</b> 100ug , 500 µg/ml	<b>GeneID (NCBI):</b> 16590	<b>CloneNo.:</b> 2B8
<b>Source:</b> Rat	<b>UNIPROT ID:</b> P05532	<b>Excitation/Emission maxima wavelengths:</b> 588 nm / 604 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, PDGFRβ, PDGFRα, 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

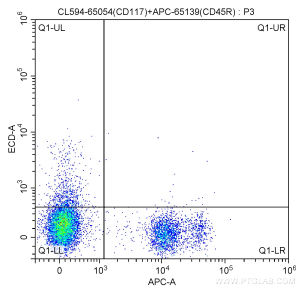
**Storage:**  
Store at 2-8°C. Avoid exposure to light. Stable for one year after shipment.

**Storage Buffer:**  
PBS with 0.1% sodium azide and 0.5% BSA, pH 7.3.

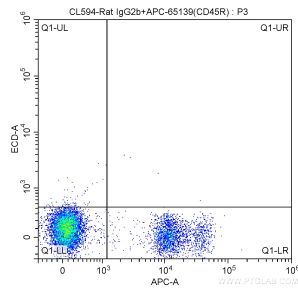
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
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## Selected Validation Data



1X10<sup>6</sup> C57BL/6 mouse bone marrow cells were surface stained with APC Anti-Mouse CD45R (B220) (APC-65139, Clone: RA3-6B2) and CoraLite® 594-conjugated Anti-Mouse CD117 (CL594-65054, Clone: 2B8). Cells were not fixed.



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