

For Research Use Only

# CoraLite® Plus 488 Anti-Mouse CD117/c-Kit (2B8)



Catalog Number: **CL488-65054**

## Basic Information

Catalog Number:

CL488-65054

Size:

100ug , 500 µg/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.:

2B8

Excitation/Emission maxima wavelengths:

493 nm / 522 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:

PBS with 0.1% sodium azide and 0.5% BSA, pH 7.3.

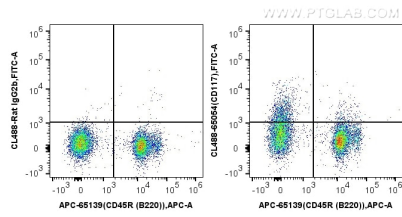
For technical support and original validation data for this product please contact:

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## Selected Validation Data



1X10<sup>6</sup> mouse bone marrow cells were surface stained with APC Anti-Mouse CD45R (B220) (APC-65139, Clone: RA3-6B2) and CoraLite® Plus 488-conjugated Rat IgG2b isotype control (left) or 1 ug CoraLite® Plus 488 Anti-Mouse CD117 (CL488-65054, Clone: 2B8) (right). Cells were not fixed.