

For Research Use Only

# CoraLite® Plus 488 Anti-Mouse CD117 (c-Kit) (ACK2)

Catalog Number: CL488-65094



## Basic Information

Catalog Number:

CL488-65094

Size:

100 tests, 5 µl/test

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

Recommended Dilutions:

FC: 5 µl per 10<sup>6</sup> cells in 100 µl suspension

Excitation/Emission maxima wavelengths:

493 nm / 522 nm

## Applications

Tested Applications:

FC

Species Specificity:

Mouse

Positive Controls:

FC : mouse bone marrow cells,

## 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 0.09% sodium azide and 0.5% BSA, pH7.3

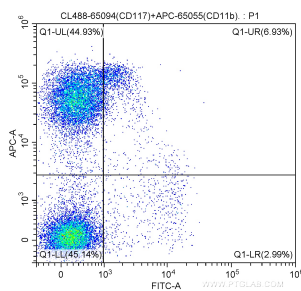
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

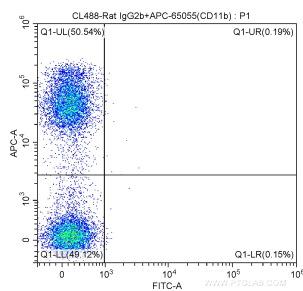
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## Selected Validation Data



1X10<sup>6</sup> C57BL/6 mouse bone marrow cells were surface stained with APC-Anti-Mouse CD11b (APC-65055, Clone: M1/70) and 5.00 ul CoraLite® Plus 488-conjugated Anti-Mouse CD117 (c-Kit) (CL488-65094, Clone: ACK2). Cells were not fixed.



1X10<sup>6</sup> C57BL/6 mouse bone marrow cells were surface stained with APC-Anti-Mouse CD11b (APC-65055, Clone: M1/70) and CoraLite® Plus 488-conjugated Rat IgG2b isotype control antibody. Cells were not fixed.