

For Research Use Only

Anti-Mouse CD117/c-Kit (2B8)

Catalog Number: 65054-1-Ig



Basic Information

Catalog Number:

65054-1-Ig

Size:

500ug, 0.5 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.:

2B8

Recommended Dilutions:

FC: 0.5 ug per 10⁶ cells in 100 µl suspension

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, PDGFR β , PDGFR α , 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. Stable for one year after shipment.

Storage Buffer:

PBS with 0.09% sodium azide, pH7.3

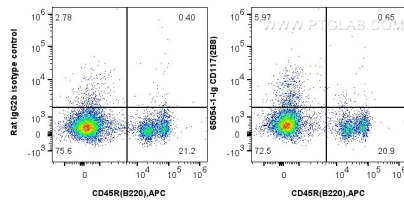
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Selected Validation Data



1x10⁶ mouse bone marrow cells were surface stained with 0.5 ug Anti-Mouse CD117 (65054-1-Ig, Clone: 2B8) or 0.5 ug Rat IgG2b Isotype Control (LTF-2) (65211-1-Ig, Clone: LTF-2), FITC anti-rat IgG2b Antibody at dilution 1:100, and 0.5 ug APC Anti-Mouse CD45R (B220) (RA3-6B2) (APC-65139, Clone: RA3-6B2). Cells were not fixed.