

CoraLite® Plus 647 Anti-Mouse CD117/c-Kit (2B8)

Catalog Number: **CL647-65054**

Basic Information

Catalog Number: CL647-65054	GenBank Accession Number: BC052457	Purification Method: Affinity purification
Size: 100ug, 0.5 mg/ml	GeneID (NCBI): 16590	CloneNo.: 2B8
Source: Rat	UNIPROT ID: P05532	Excitation/Emission maxima wavelengths: 654 nm / 674 nm
Isotype: IgG2b, kappa	Full Name: kit oncogene	

Applications

Tested Applications:
FC
Species Specificity:
Mouse

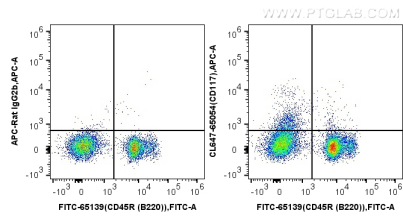
Background Information

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 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. 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



1X10⁶ mouse bone marrow cells were surface co-stained with FITC Anti-Mouse CD45R (B220) (RA3-6B2) and 0.4 ug CoraLite® Plus 647 Anti-Mouse CD117 (CL647-65054, Clone: 2B8) or 0.4 ug CoraLite® Plus 647-conjugated Rat IgG2b isotype control. Cells were not fixed.