

For Research Use Only

Anti-Human CD117/c-Kit Rabbit Recombinant Antibody

Catalog Number: 98377-1-RR



Basic Information

Catalog Number:

98377-1-RR

Size:

100ug, 1000 µg/ml

Source:

Rabbit

Isotype:

IgG

GenBank Accession Number:

BC071593

GeneID (NCBI):

3815

UNIPROT ID:

P10721

Full Name:

v-kit Hardy-Zuckerman 4 feline sarcoma viral oncogene homolog

Calculated MW:

976 aa, 110 kDa

Purification Method:

Protein A purification

CloneNo.:

241313C5

Recommended Dilutions:

FC: 0.25 µg per 10⁶ cells in 100 µl suspension

Applications

Tested Applications:

FC

Species Specificity:

human

Positive Controls:

FC : TF-1 cells, FC receptor blocked human blood 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 hemopoiesis. 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

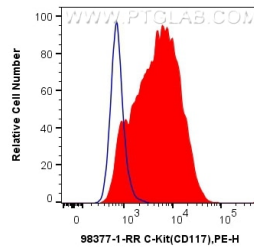
For technical support and original validation data for this product please contact:

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

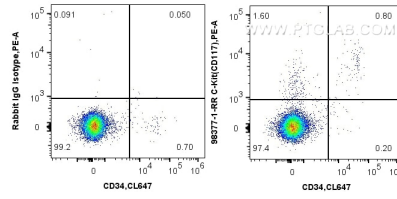
E: proteintech@ptglab.com
W: ptglab.com

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Selected Validation Data



1x10⁶ TF-1 cells were surface stained with 0.25 ug Anti-Human C-Kit Rabbit RecAb (98377-1-RR, Clone:241313C5) and PE-Conjugated Goat Anti-Rabbit IgG(H+L)(red), or 0.25 ug Rabbit IgG Isotype Control RecAb (98136-1-RR, Clone: 240953C9) (blue). Cells were not fixed.



1x10⁶ human blood cells were surface stained with 0.25 ug Anti-Human C-Kit Rabbit RecAb (98377-1-RR, Clone:241313C5) or Rabbit IgG Isotype Control RecAb (98136-1-RR, Clone: 240953C9) and PE-Conjugated Goat Anti-Rabbit IgG(H+L). Cells were then stained with CoraLite® Plus 647 Anti-Human CD34. Cells were not fixed. Lymphocytes were gated.