

For Research Use Only

# CoraLite® Plus 647-conjugated CD117/c-Kit Recombinant monoclonal antibody

Catalog Number: CL647-84259-5



## Basic Information

**Catalog Number:**

CL647-84259-5

**Size:**

100ul , Concentration: 1000 ug/ml by  
Nanodrop;

**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:**

IF/ICC: 1:50-1:500

**Excitation/Emission maxima  
wavelengths:**

654 nm / 674 nm

## Applications

**Tested Applications:**

IF/ICC

**Species Specificity:**

human

**Positive Controls:**

IF/ICC : Mo7e 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 $\beta$ , 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 hemopoiesis. It is also involved in pigmentation, fertility, gut movement, and some aspects of the nervous system (PMID: 23073628).

## Storage

**Storage:**

Store at -20°C. Avoid exposure to light. Stable for one year after shipment.

**Storage Buffer:**

PBS with 50% glycerol, 0.05% Proclin300, 0.5% BSA, pH7.3

Aliquoting is unnecessary for -20°C storage

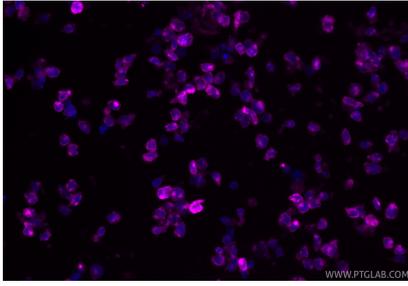
For technical support and original validation data for this product please contact:

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

E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
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## Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed Mo7e cells using Coralite® Plus 647 CD117/c-Kit antibody (CL647-84259-5, Clone: 241313C5) at dilution of 1:200.