

# CD117/c-Kit Recombinant monoclonal antibody

Catalog Number: 84259-10-RR

## Basic Information

<b>Catalog Number:</b> 84259-10-RR	<b>GenBank Accession Number:</b> BC071593	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul , Concentration: 1000 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 3815	<b>CloneNo.:</b> 242068G5
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P10721	<b>Recommended Dilutions:</b> IHC: 1:2500-1:10000 IF/ICC: 1:250-1:1000
<b>Isotype:</b> IgG	<b>Full Name:</b> v-kit Hardy-Zuckerman 4 feline sarcoma viral oncogene homolog	
	<b>Calculated MW:</b> 976 aa, 110 kDa	

## Applications

<b>Tested Applications:</b> IHC, IF/ICC, ELISA	<b>Positive Controls:</b>
<b>Species Specificity:</b> human	<b>IHC :</b> human colon tissue, human gastrointestinal stromal tumor tissue, human kidney (renal cell) cancer
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	<b>IF/ICC :</b> Kasumi-1 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

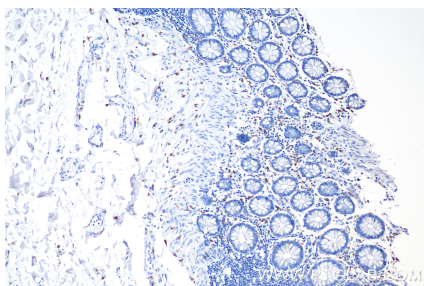
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol, pH7.3  
**Aliquoting is unnecessary for -20°C storage**

\*\*\* 20ul sizes contain 0.1% BSA

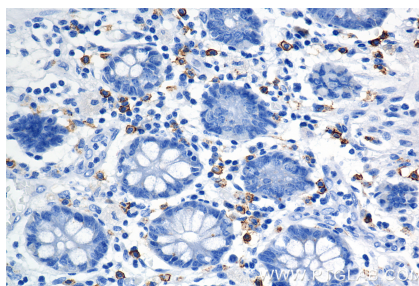
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
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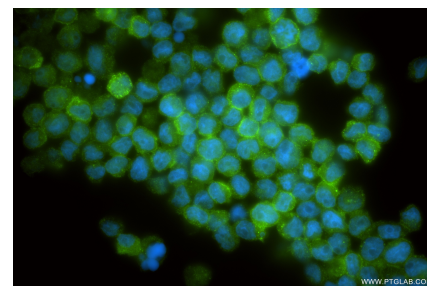
## Selected Validation Data



Immunohistochemical analysis of paraffin-embedded human colon tissue slide using 84259-10-RR (C-Kit antibody) at dilution of 1:5000 (under 10x lens). Heat mediated antigen retrieval with Sodium Citrate buffer (pH 6.0).



Immunohistochemical analysis of paraffin-embedded human colon tissue slide using 84259-10-RR (C-Kit antibody) at dilution of 1:5000 (under 40x lens). Heat mediated antigen retrieval with Sodium Citrate buffer (pH 6.0).



Immunofluorescent analysis of (4% PFA) fixed Kasumi-1 cells using CD117/c-Kit antibody (84259-10-RR, Clone: 242068G5) at dilution of 1:500 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).