

For Research Use Only

# CD117/c-Kit Recombinant antibody

Catalog Number: 84259-3-RR



## Basic Information

<b>Catalog Number:</b> 84259-3-RR	<b>GenBank Accession Number:</b> BC071593	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 1000 $\mu$ g/ml	<b>GeneID (NCBI):</b> 3815	<b>CloneNo.:</b> 241312A12
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P10721	<b>Recommended Dilutions:</b> IHC 1:250-1:1000 IF/ICC 1:200-1:800
<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, <b>IF/ICC :</b> Mo7e cells,
<b>Note-IHC:</b> suggested antigen retrieval with <b>TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## 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 pH 7.3.  
**Aliquoting is unnecessary for -20°C storage**

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

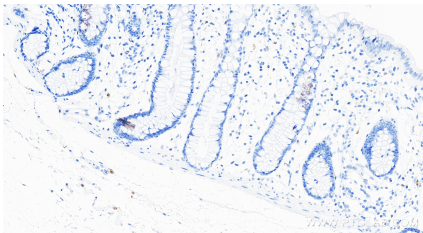
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

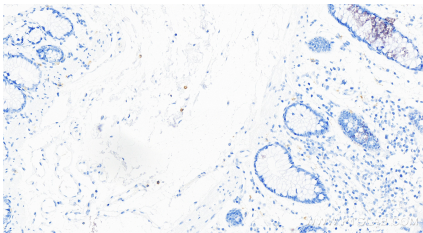
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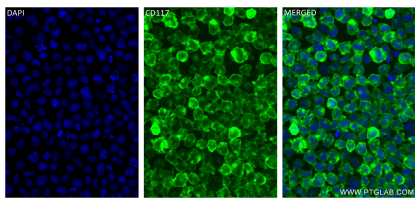
Selected Validation Data



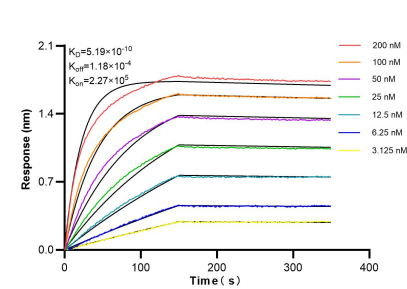
Immunohistochemical analysis of paraffin-embedded human colon tissue slide using 84259-3-RR (CD117/c-Kit antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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Immunofluorescent analysis of (4% PFA) fixed Mo7e cells using CD117/c-Kit antibody (84259-3-RR, Clone: 241312A12 ) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).



Biolayer interferometry (BLI) kinetic assays of 84259-3-RR against Human CD117/c-Kit were performed. The affinity constant is 0.519 nM.