

For Research Use Only

# CD117/c-Kit Recombinant antibody, PBS Only

Catalog Number: 84259-5-PBS



## Basic Information

<b>Catalog Number:</b> 84259-5-PBS	<b>GenBank Accession Number:</b> BC071593	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ug , Concentration: 1 mg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 3815	<b>CloneNo.:</b> 241313C5
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P10721	
<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	
	<b>Observed MW:</b> 140 kDa	

## Applications

**Tested Applications:**  
WB, IHC, IF/ICC, Indirect ELISA

**Species Specificity:**  
human

## 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

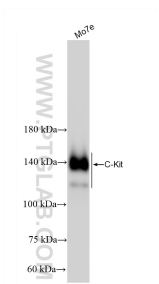
**Storage:**  
Store at -80°C.

**Storage Buffer:**  
PBS Only

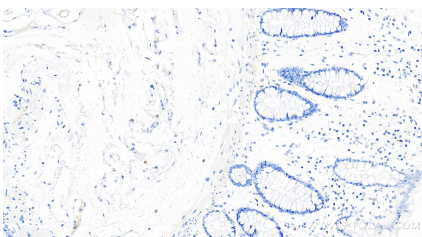
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
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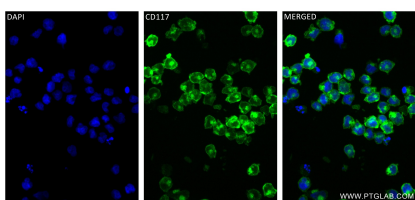
Selected Validation Data



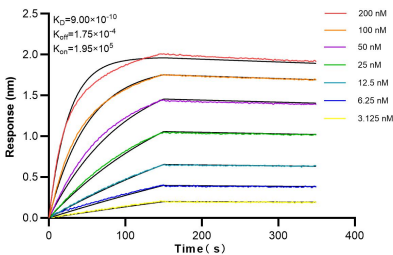
Mo7e cells were subjected to SDS PAGE followed by western blot with 84259-5-RR (CD117/c-Kit antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 84259-5-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded human colon tissue slide using 84259-5-RR (CD117/c-Kit antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 84259-5-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed Mo7e cells using CD117/c-Kit antibody (84259-5-RR, Clone: 241313C5 ) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). This data was developed using the same antibody clone with 84259-5-PBS in a different storage buffer formulation.



Biolayer interferometry (BLI) kinetic assays of 84259-5-RR against Human CD117/c-Kit were performed. The affinity constant is 0.90 nM.