

For Research Use Only

CD117/c-Kit Recombinant antibody, PBS Only (Capture)

Catalog Number: 84259-3-PBS



Basic Information

Catalog Number: 84259-3-PBS	GenBank Accession Number: BC071593	Purification Method: Protein A purification
Size: 100ug , Concentration: 1 mg/ml by Nanodrop;	GeneID (NCBI): 3815	CloneNo.: 241312A12
Source: Rabbit	UNIPROT ID: P10721	
Isotype: IgG	Full Name: v-kit Hardy-Zuckerman 4 feline sarcoma viral oncogene homolog	
	Calculated MW: 976 aa, 110 kDa	

Applications

Tested Applications:
IHC, IF/ICC, Cytometric bead array, Indirect ELISA

Species Specificity:
human

Product Information

84259-3-PBS targets CD117/c-Kit as part of a matched antibody pair:

MP01171-1: 84259-3-PBS capture and 84259-2-PBS detection (validated in Cytometric bead array)

MP01171-2: 84259-3-PBS capture and 84259-1-PBS detection (validated in Cytometric bead array)

Unconjugated rabbit recombinant monoclonal antibody in PBS only (BSA and azide free) storage buffer at a concentration of 1 mg/mL, ready for conjugation. Created using Proteintech's proprietary in-house recombinant technology. Recombinant production enables unrivalled batch-to-batch consistency, easy scale-up, and future security of supply.

This conjugation ready format makes antibodies ideal for use in many applications including: ELISAs, multiplex assays requiring matched pairs, mass cytometry, and multiplex imaging applications. Antibody use should be optimized by the end user for each application and assay.

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).

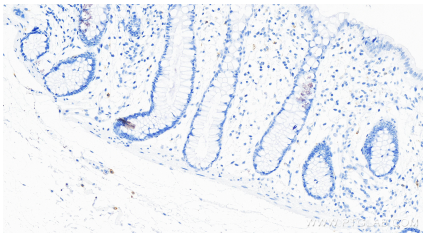
Storage

Storage:
Store at -80°C.
Storage Buffer:
PBS Only

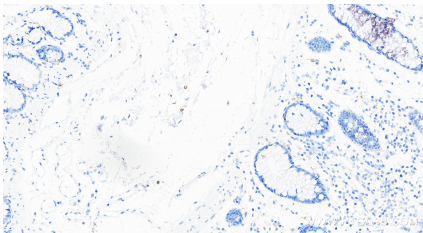
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

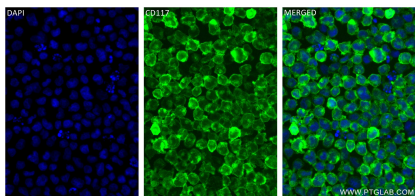
Selected Validation Data



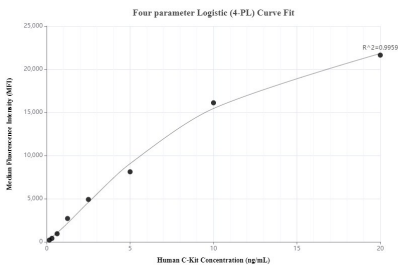
Immunohistochemical analysis of paraffin-embedded human colon tissue slide using 84259-3-RR (CD117/c-Kit antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 84259-3-PBS in a different storage buffer formulation.



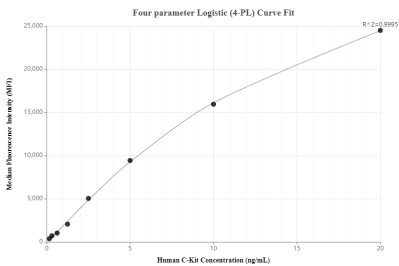
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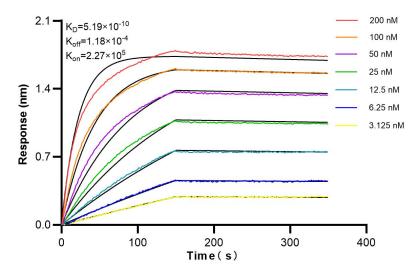
Immunofluorescent analysis of (4% PFA) fixed Mo7e cells using CD117/c-Kit antibody (84259-3-RR, Clone: 241312A12) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). This data was developed using the same antibody clone with 84259-3-PBS in a different storage buffer formulation.



Cytometric bead array standard curve of MP01171-1, CD117/c-Kit Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 84259-3-PBS. Detection antibody: 84259-2-PBS. Standard: RP02323. Range: 0.156-20 ng/mL



Cytometric bead array standard curve of MP01171-2, CD117/c-Kit Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 84259-3-PBS. Detection antibody: 84259-1-PBS. Standard: RP02323. Range: 0.156-20 ng/mL



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