

CD117/c-Kit Recombinant monoclonal antibody

Catalog Number: 84259-10-RR

Basic Information

Catalog Number:

84259-10-RR

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.:

242068G5

Recommended Dilutions:

IHC: 1:2500-1:10000

IF/ICC: 1:250-1:1000

Applications

Tested Applications:

IHC, IF/ICC, ELISA

Species Specificity:

human

**Note-IHC: suggested antigen retrieval with
TE buffer pH 9.0; (*) Alternatively, antigen
retrieval may be performed with citrate
buffer pH 6.0**

Positive Controls:

IHC : human colon tissue, human gastrointestinal
stromal tumor tissue, human kidney (renal cell) cancer

IF/ICC : 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 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:

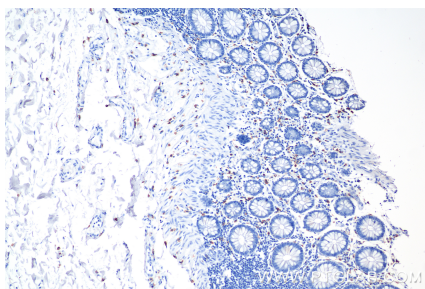
Store at -20°C. Stable for one year after shipment.

Storage Buffer:

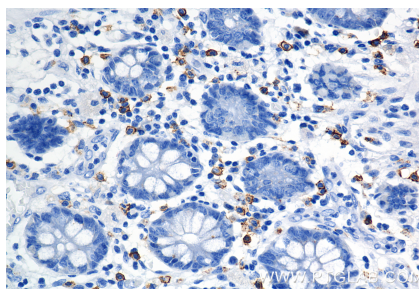
PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

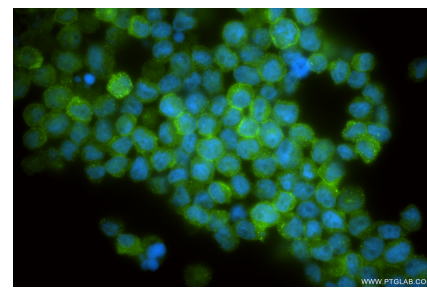
Selected Validation Data



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).