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# CD117/c-Kit Rabbit mAb

**Catalog No.: A27823** Recombinant

## Basic Information

**Observed MW**
120-145kDa

**Calculated MW**
110kDa

**Category**
Primary antibody

**Applications**
WB,IF/ICC,IHC-P,ELISA

**Cross-Reactivity**
Human

**CloneNo number**
ARC75149

## Background

This gene encodes a receptor tyrosine kinase. This gene was initially identified as a homolog of the feline sarcoma viral oncogene v-kit and is often referred to as proto-oncogene c-Kit. The canonical form of this glycosylated transmembrane protein has an N-terminal extracellular region with five immunoglobulin-like domains, a transmembrane region, and an intracellular tyrosine kinase domain at the C-terminus. Upon activation by its cytokine ligand, stem cell factor (SCF), this protein phosphorylates multiple intracellular proteins that play a role in in the proliferation, differentiation, migration and apoptosis of many cell types and thereby plays an important role in hematopoiesis, stem cell maintenance, gametogenesis, melanogenesis, and in mast cell development, migration and function. This protein can be a membrane-bound or soluble protein. Mutations in this gene are associated with gastrointestinal stromal tumors, mast cell disease, acute myelogenous leukemia, and piebaldism. Multiple transcript variants encoding different isoforms have been found for this gene.

## Recommended Dilutions

| | |
|---|---|
| **WB** | 1:5000 - 1:10000 |
| **IF/ICC** | 1:200 - 1:400 |
| **IHC-P** | 1:10000 - 1:40000 |
| **ELISA** | Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements. |

## Immunogen Information

**Gene ID**
3815

**Swiss Prot**
P10721

**Immunogen**
Synthetic peptide. This information is considered to be commercially sensitive.

**Synonyms**
PBT; SCFR; C-Kit; CD117; MASTC

## Contact


400-999-6126

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## Product Information

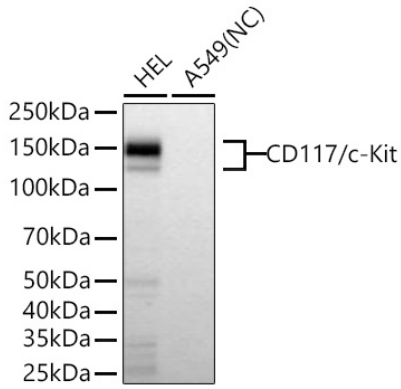
**Source**
Rabbit

**Isotype**
IgG

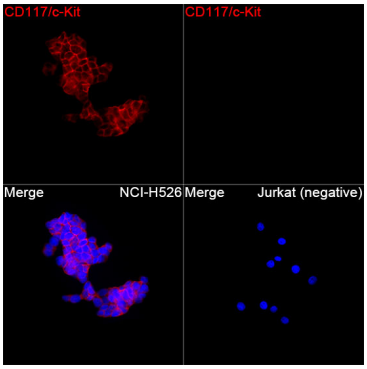
**Purification**
Affinity purification

**Storage**
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS with 0.09% Sodium azide,0.05% BSA,50% glycerol,pH7.3.

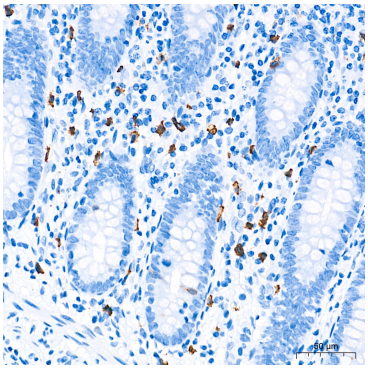
## Validation Data



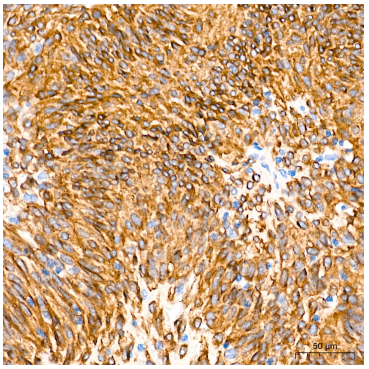

Western blot analysis of various lysates using CD117/c-Kit Rabbit mAb (A27823) at 1:5000 dilution incubated overnight at 4℃.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Negative control (NC): A549
Exposure time: 20s.



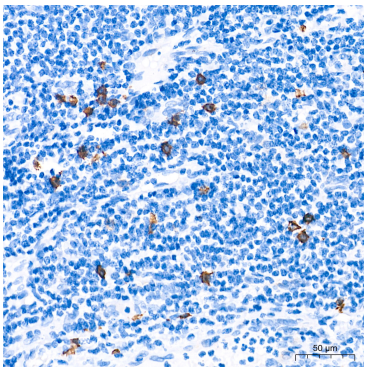

Immunofluorescence analysis of NCI-H526 cells and Jurkat (negative) cells using CD117/c-Kit Rabbit mAb (A27823) at a dilution of 1:200 (40x lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L)(AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.



Immunohistochemistry analysis of paraffin-embedded Human appendix tissue using CD117/c-Kit Rabbit mAb (A27823) at a dilution of 1:18000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Human gastrointestinal stromal tumor tissue using CD117/c-Kit Rabbit mAb (A27823) at a dilution of 1:18000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Human tonsil tissue using CD117/c-Kit Rabbit mAb (A27823) at a dilution of 1:18000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.