



## **Rabbit anti CD117 (kit) Polyclonal Antibody**

**Alternative Name(s): C-kit, CD117, Kit**

### **Order Information**

- **Description:** CD117 (kit)
- **Catalogue:** 600-970
- **Lot:** See label
- **Size:** 100ug/200ul
- **Host:** Rabbit
- **Clone:** nan
- **Application:** IHC(P), WB, FACS
- **Reactivity:** Hu, Ms, Rt

### **ANTIGEN PREPARATION**

A synthetic peptide derived from N-terminus of Kit protein. This sequence is identical in human, rat, mouse and dog origins.

### **BACKGROUND**

The c-Kit proto-oncogene encodes a 145 kDa transmembrane receptor (CD117) with tyrosine kinase activity that is structurally related to platelet-derived growth factor. C-Kit/CD117 antigen is expressed on almost all hematopoietic stem and progenitor cells. c-Kit regulates a variety of biological responses including cell proliferation, apoptosis, chemotaxis and adhesion. Ligand binding to the extracellular domain leads to autophosphorylation on several tyrosine residues within the cytoplasmic domain and activation. Mutations in c-Kit have been found to be important for tumor growth and progression in a variety of cancers including mast cell diseases, gastrointestinal stromal tumor, acute myeloid leukemia, Ewing sarcoma and lung cancer. C-kit plays an important role in hematopoiesis, melanogenesis, and gametogenesis.

### **PURIFICATION**

The Rabbit IgG is purified by Epitope Affinity Purification

### **FORMULATION**

This affinity purified antibody is supplied in sterile Phosphatebuffered saline (pH7.2) containing antibody stabilizer

### **SPECIFICITY**

This antibody recognizes CD117/c-Kit protein. It cross- reacts to human, mouse and rat. The other species were not tested.

### **STORAGE**

The antibodies are stable for 24 months from date of receipt when stored at -20oC to -70oC. The antibodies can be stored at 2oC-8oC for three month without detectable loss of activity. Avoid repeated freezing-thawing cycles.

### **APPLICATIONS/SUGGESTED WORKING DILUTIONS\***

- Western Blot: 0.1-1 µg/ml
- ELISA: 0.01-0.1 µg/ml
- Immunoprecipitation: 2-5 µg/ml
- IHC: 2-10 µg/ml
- Flow cytometry: Not tested
- Molecular Weight: 145.0
- Positive Control: Kidney Tissue
- Cellular Location: Cell Membrane

\*Optimal dilutions should be determined by researchers for the specific applications.

### **FOR RESEARCH USE ONLY.**

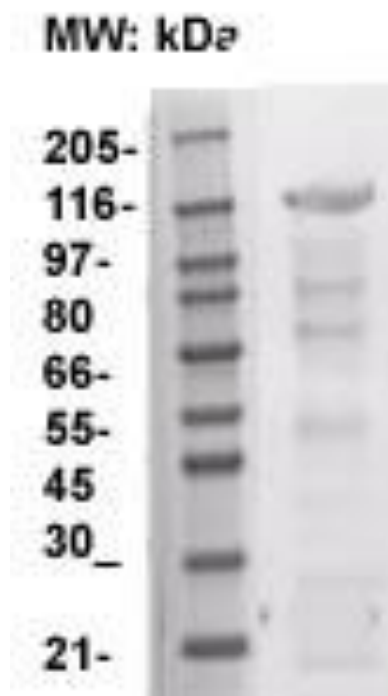
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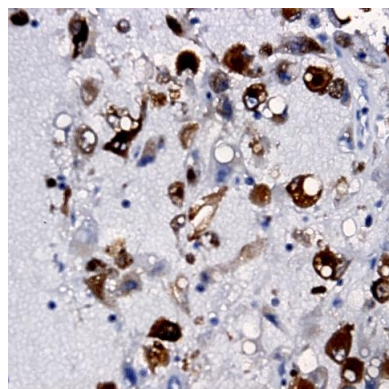
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## DATA ATTACHMENTS



Western Blot: The whole cell lysate derived from Jurkat cell was separated in 10% SDS-PAGE, transferred onto NC membrane, and immunoblotted by Rabbit anti-CD117/c-Kit (CT) antibody (Cat#600-970) at 1:500. An immunoreactive band around ~145 kDa was observed.



Immunohistochemistry: Human lymphomacarcinoma (FFPE) stained with Rabbit anti-CD117/c-Kit (Cat# 600-970) at 1:200 for 10 min @ RT. Staining of formalin-fixed tissue requires boiling tissue sections in 10 mM Citrate Buffer, pH 6.0 for 10 min followed by cooling at RT for 20 min.

## REFERENCES

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