



Rabbit anti CD117/Kit (IN)/c-Kit Polyclonal Antibody

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

Order Information

- **Description:** CD117/Kit (IN)/c-Kit
- **Catalogue:** 601-290
- **Lot:** See label
- **Size:** 100ug/200ul
- **Host:** Rabbit
- **Clone:** nan
- **Application:** IHC(P), WB
- **Reactivity:** Hu

ANTIGEN PREPARATION

A synthetic peptide derived from extracellular domain of Kit protein. This sequence is identical in human 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 human CD117/c-Kit protein. The other species were not tested.

STORAGE

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

APPLICATIONS/SUGGESTED WORKING DILUTIONS*

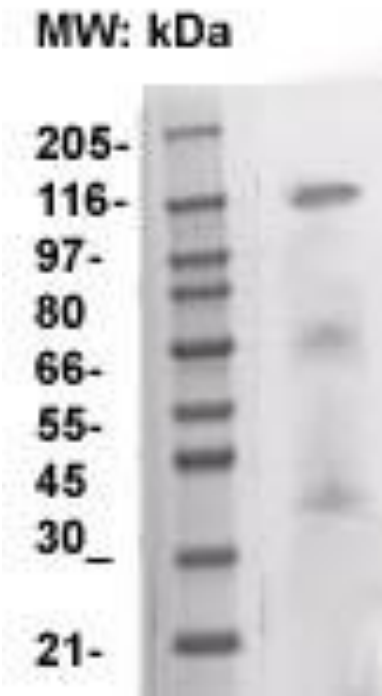
- Western Blot: 0.1-1 $\mu\text{g/ml}$
- ELISA: 0.01-0.1 $\mu\text{g/ml}$
- Immunoprecipitation: 2-5 $\mu\text{g/ml}$
- IHC: 2-10 $\mu\text{g/ml}$
- Flow cytometry: Not tested
- Molecular Weight: 145.0
- Positive Control: Kidney Tissue
- Cellular Location: Cell Membrane

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

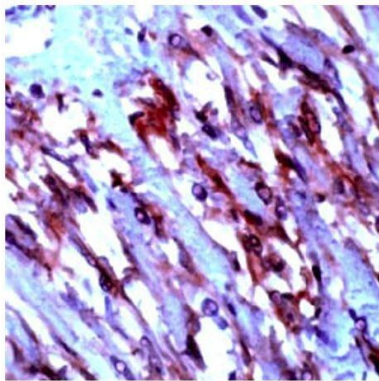
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DATA ATTACHMENTS



Western Blot: The whole cell lysate derived from Jurkat cell (20 ug/lane) was separated in 10% SDS-PAGE, transferred onto NC membrane, and immunoblotted by Rabbit anti -CD117/c-Kit (NT) antibody (Cat#601-290) antibody at 1:500 . An immunoreactive band around ~145 kDa was observed.



Immunohistochemistry: Human stromal tumor (FFPE) stained with Rabbit anti-TGF (Cat#) at 1:100 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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