



Mouse anti CD117(c-kit) Monoclonal Antibody

Alternative Name(s): Kit Protein, c-Kit, CD117 antigen; SCFR, PBT

Order Information

- **Description:** CD117(c-kit) Hu
- **Catalogue:** 604-140
- **Lot:** See label
- **Size:** 100ug/200ul
- **Host:** Mouse
- **Clone:** 104D2
- **Application:** IHC(P), FC
- **Reactivity:** Hu

ANTIGEN PREPARATION

A recombinant protein of CD117/Kit protein

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 mouse IgG is purified by Protein A-Affinity Chromatography according to Isotyping

FORMULATION

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

SPECIFICITY

This antibody recognizes human CD117(c-kit) Hu protein. The other species are 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*

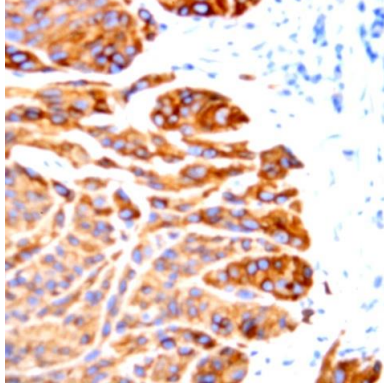
- Western Blot: 0.1-1 $\mu\text{g/ml}$
- ELISA: 0.01-0.1 $\mu\text{g/ml}$
- Immunoprecipitation: 2-5 $\mu\text{g/ml}$
- IHC: 2-10 $\mu\text{g/ml}$
- Flow cytometry: 0.5-5 $\mu\text{g}/10^6$ cells
- Molecular Weight: 145.0
- Positive Control: Kidney Tissue
- Cellular Location: Cell Membrane

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

FOR RESEARCH USE ONLY.

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DATA ATTACHMENTS



Immunohistochemistry: Human GIST carcinoma (FFPE) stained with Mouse anti-CD117/c-kit (Cat# 604-140) 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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