Rat anti CD117(mouse) Monoclonal Antibody

Alternative Name(s): nan

Order Information

- **Description:** CD117(c-kit) (Ms)
- **Catalogue:** 604-530
- **Lot:** See label
- **Size:** 100ug/200ul
- **Host:** Rat
- **Clone:** 2B8
- **Application:** IHC(P), FC
- **Reactivity:** Ms, Pig

ANTIGEN PREPARATION

A recombinant protein of human CD117/c-kit

BACKGROUND

CD117, a 145 kD immunoglobulin superfamily member, also known as c-kit and stem cell factor receptor (SCFR) is a transmembrane tyrosine-kinase receptor that binds the c-kit ligand (also known as steel factor, stem cell factor, and mast cell growth factor). CD117 is expressed on hematopoietic stem cells (including multipotent hematopoietic stem cells, progenitors committed to myeloid and/or erythroid lineages, and T and B cell precursors), mast cells, and acute myeloid leukemia (AML) cells. CD117 interaction with its ligand is critical for the development of hematopoietic stem cells.

PURIFICATION

The Mouse IgG is purified by Affinity Purification

FORMULATION

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

SPECIFICITY

This antibody recognizes mouse CD117(c-kit) (Ms) protein. The other species are 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: 0.5-5 µg/106 cells
- 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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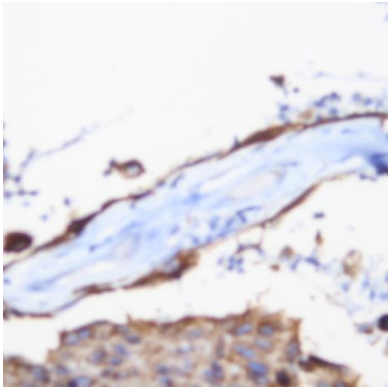
DATA ATTACHMENTS



Immunohistochemistry: Human GIST carcinoma (FFPE) stained with Mouse anti- CD117/c-kit (Cat# 604-530) 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

Ikuta K, et al. 1992. Annu. Rev. Immunol. 10:759.

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