

PRODUCT DATA SHEET

Product: Anti-C-kit (CD117), Clone 57A5

Cat. No: MC-309 (100 µg)

Background:

Human c-kit (CD117) is a trans-membrane protein with receptor tyrosine kinase capacity and serves as the receptor for steel factor (SLF). CD117 is expressed on almost all hematopoietic progenitor cells and receptor/ligand interaction is crucial for development of hematopoietic stem cells (2,3).

Specificity:

Recognizes epitope 2 of the CD117 molecule, approximately 150 kDa in size.

Species Reactivity:

Human. Other species not tested.

Ig Isotype: Mouse IgG1

Immunogen:

Human MO7e tumor cells.

Format:

Monoclonal antibody against human c-kit (CD117). Prepared in 50 mM Sodium Phosphate pH 7.5, 100 mM Potassium Chloride, 150 mM NaCl, and 0.5 mg/ml Gentamicin Sulfate (as a preservative). Concentration of antibody is 1.0 mg/ml. Antibody was Protein A purified from (low FBS containing) tissue culture supernatant. Purity >95% by SDS-PAGE and contains <1% Bovine Immunoglobulin.

Storage and Stability:

Stable for at least 12 months when stored at +4°C. Do not Freeze/Thaw.

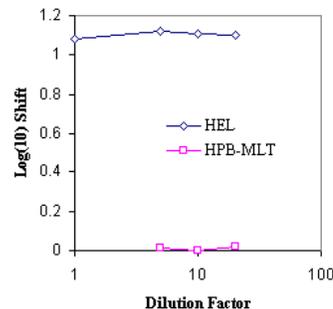
Applications and Suggested Dilutions:

- Flow Cytometry
- Immunoprecipitation
- Immunohistochemistry: Frozen Sections.

Does not block the binding of SCF.

The optimal dilution for a specific application should be determined by the researcher.

Binding of anti-CD117 antibody to human cell lines (7-203)



Method: Five x 10⁵ cultured HEL cells were washed and incubated 45 minutes on ice with 80 µl of anti-CD117 antibody at 5 µg/ml. Cells were washed twice and incubated with 2° reagent Goat anti-Mouse IgG/FITC at a 1:60 dilution factor, after which they were washed three times, fixed and analyzed using a BD FACstar plus. Cells stained positive with a mean shift of 1.12 log₁₀ fluorescent units when compared to a Mouse IgG1 negative control at a similar concentration.

Limitations:

For *in vitro* research use only. Not for use in diagnostics or in humans.

Warranty:

No warranties, expressed or implied, are made regarding the use of this product. KAMIYA BIOMEDICAL COMPANY is not liable for any damage, personal injury, or economic loss caused by this product.