PERFORMANCE DATA SHEET
3249

Monoclonal anti-human CD117 (c-kit)*

mAb name/Clone: **57A5**
Isotype: Mouse IgG1
Immunogen: Human MO7e tumor cells

CATALOG#: 338-020
QUANTITY: 100 µg **CONCENTRATION: 1.0 mg/ml**

INFORMATION: Human CD117 (c-kit) is a transmembrane 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. Antibody 57A5 recognizes the CD117 molecule of about 150 kd.
References: L.K. Ashman, et al, (1994) J Cellular Physiol **158:** 545-554. Leukocyte Typing V (S.F. Schlossman, et al, eds.) Oxford University Press, Oxford, (1995) p. 1856, 1882-1888. J.R. Keller, et al, (1995) Blood **86:** 1757-1764.

STORAGE CONDITIONS: ***Store at 2 - 5°C. Freeze/Thawing is not recommended.***

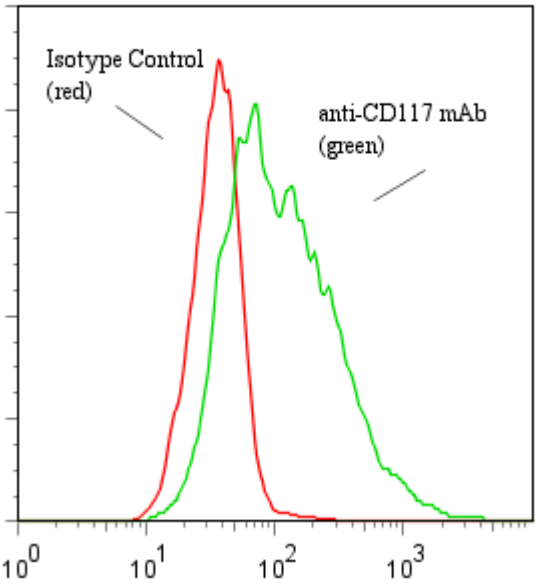
PRODUCT STABILITY: Product should retain activity for at least 12 months after shipping date when stored as recommended. Ship Date:_____

BUFFER: 50 mM Sodium Phosphate pH 7.5, 100 mM Potassium Chloride, 150mM NaCl, 0.5 mg/ml Gentamicin Sulfate (as a preservative).

PRODUCTION: Antibody was Protein A purified from (low FBS containing) tissue culture supernatant. Purity was >95% Immunoglobulin by SDS-PAGE and contains less than 1% Bovine Immunoglobulin.

PERFORMANCE: Five x 10^5 cultured **HEL92.1.7** 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 (Catalog #232-011), after which they were washed three times, fixed and analyzed by FACS. Cells stained positive with a mean shift of **0.76** $\log_{10}$ fluorescent units when compared to a Mouse IgG1 negative control (Catalog #278-010).

Binding of anti-CD117 mAb +GAM/FITC to human HEL92.1 cells



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