

## PERFORMANCE DATA SHEET

1818

### *Monoclonal anti-human CD117 (c-kit)\**

*mAb name/Clone: 57A5*

*Isotype: Mouse IgG1*

*Immunogen: Human MO7e tumor cells*

**CATALOG#: 338-820 (Preservative-free)**

**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. *Open under aseptic conditions.*

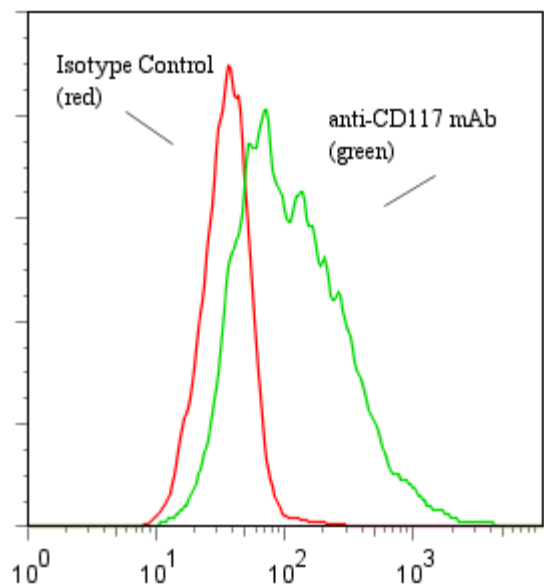
**PRODUCT STABILITY:** Product should retain activity for at least 12 months after shipping date when stored as recommended. Ship Date: \_\_\_\_\_

**BUFFER:** 50 mM Sodium Phosphate pH 7.5, 100 mM Potassium Chloride, 150mM NaCl.

**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. Product was 0.2µ sterile filtered and vialled under aseptic conditions.

**PERFORMANCE:** Five x 10<sup>5</sup> 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<sup>0</sup> 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<sub>10</sub>** fluorescent units when compared to a Mouse IgG1 negative control (Catalog #278-010) at a similar concentration.

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



*\*This Product is intended for Laboratory Research use only.*

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