

PERFORMANCE DATA SHEET

3018

Monoclonal anti-human CD117 (c-kit)/R-PE*

mAb name/Clone: 57A5

Isotype: Mouse IgG1

Immunogen: Human MO7e tumor cells

CATALOG#: 338-050

QUANTITY: 120 tests

VOLUME IN VIAL: 0.2 ml

WORKING DILUTION: 1:50 (or use 1.6µl of concentrated stock per 5 x 10⁵-cell test)

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. **Do not freeze! Protect from light.**

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, 500 mM Potassium Chloride, 150mM NaCl, 15% Glycerol, 0.2% BSA, 0.04% NaN₃ (as a preservative).

PRODUCTION: Protein A purified antibody from tissue culture supernatant was conjugated to R-Phycoerythrin through a sulfo-ester linkage. Unconjugated antibody was removed using size exclusion chromatography. Antibody conjugate is at **0.5 mg/ml** with an OD565/OD280 ratio of 3.04.

PERFORMANCE: Five x 10⁵ cultured **HEL** human tumor cells were washed and incubated 45 minutes on ice with 80 µl of anti-CD117/R-PE at a **1:50** dilution (10µg/ml). They were washed three times, fixed and analyzed by FACS. Cells stained positive with a mean shift of **0.97 log₁₀** fluorescent units when compared to a Mouse IgG1/R-PE negative control (Catalog #278-050). Binding was blocked when cells were pre incubated 10 minutes with 20 µl of 0.5 mg/ml anti-CD117 antibody (Catalog #338-020).

***Research use only. Not for use in Diagnostic procedures.**

Binding of anti-CD117/PE to cultured human HEL92.1 cells

