

PERFORMANCE DATA SHEET

1818

Monoclonal anti-human CD117 (c-kit)/Biotin*

mAb name/Clone: 57A5

Isotype: Mouse IgG1

Immunogen: Human MO7e tumor cells

CATALOG#: 338-030

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, 5% Glycerol, 0.2% BSA, 0.04% NaN₃ (as a preservative).

PRODUCTION: Antibody from (low FBS containing) tissue culture supernatant was Protein A purified to >95% mouse immunoglobulin by SDS-PAGE (<1% bovine immunoglobulin), and reacted with NHS-Biotin. Unconjugated Biotin was removed from conjugate using a desalting column.

PERFORMANCE: Five x 10⁵ cultured HEL cells were washed and pre incubated 10 minutes with 20 µl human IgG at 250 mg/ml (to block non specific binding) after which they were incubated 45 minutes on ice with 80 µl of anti-CD117/Biotin at 10µg/ml. Cells were washed twice and incubated with 2^o reagent Streptavidin/R-Phycoerythrin (Catalog #253-050), after which they were washed three times, fixed and analyzed by FACS. Cells stained positive with a mean shift of 1.1 log₁₀ fluorescent units when compared to a Mouse IgG1 negative control (Catalog #278-030). 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/Biotin + SA/PE to human HEL92.1 cells

