

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 10⁵ 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^o 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 log₁₀ fluorescent units when compared to a Mouse IgG1 negative control (Catalog #278-010).

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

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

