PERFORMANCE DATA SHEET
1818

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

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

CATALOG#: 338-060
QUANTITY: 120 tests **VOLUME IN VIAL: 0.25 ml**
WORKING DILUTION: 1:50 (or use 1.6µl of concentrated stock per 5 x 10^5-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^{o}C. Do not freeze! Protect from light.***

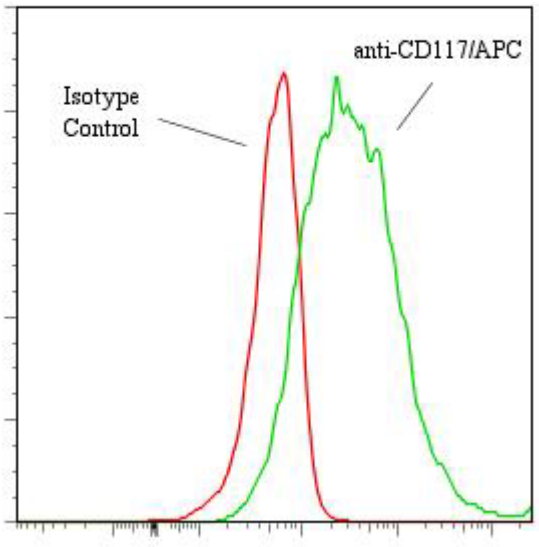
PRODUCT STABILITY: Product should retain activity for at least 12 months after shipping date when stored as recommended. Ship Date:_____

BUFFER: 50 mM Sodium Phosphate pH 7.5, 500 mM Potassium Chloride, 150mM NaCl, 15% Glycerol, 0.2% BSA, 0.04% NaN_3 (as a preservative).

PRODUCTION: Protein A purified antibody from tissue culture supernatant was conjugated to cross-linked Allophycocyanin through a sulfo-ester linkage. Unconjugated antibody was removed using size exclusion chromatography. Antibody conjugate is at **0.25 mg/ml** with an A_{650}/A_{280} ratio of 1.61.

PERFORMANCE: Five x 10^5 cultured human **HEL92.1** cells were washed and incubated 45 minutes on ice with 80 µl of anti-CD117/APC at a **1:50** dilution factor (5 µg/ml). Cells were washed three times, fixed and analyzed by FACS. Cells stained positive with a mean shift of **0.9** $\log_{10}$ fluorescent units when compared to Isotype control Mouse IgG1/APC (Catalog #278-060). Binding was blocked when cells were pre incubated with an excess of unlabeled anti-CD117 mAb (Cat# 338-020).

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



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