PERFORMANCE DATA SHEET
3141

Monoclonal anti-human Perforin/APC*

mAb name/Clone: **δG9**
Isotype: Mouse IgG2b kappa
Immunogen: Purified granules from human YT lymphoma cell line

CATALOG#: 358-050
QUANTITY: 120 tests **VOLUME IN VIAL: 0.2 ml**
WORKING DILUTION: 1:50 (or use 1.6µl of concentrated reagent per $5x10^5$-cell test)

INFORMATION: Human perforin (cytolysin) is believed to be one of the major effector molecules used by cytotoxic T cells and NK cells to mediate targeted cell lysis. Perforin expression is constitutive on NK cells, but increases in resting $CD8^+$ cytotoxic cells upon activation. Antibody δG9 recognizes the human perforin molecule of 70 kd.
References: M.J. Smyth, et al, (1990) J Exp Med **171***:* 1269-1281. A. Hameed, et al, Am J Pathol (1992) **140**: 1025-1030. P.L. Jose, et al, (1994) J Immunol **148***:* 3354-3360. B.C. Schlesinger & L. Cheng, Immunol (1994) **81**: 291-295. C.C. Liu, et al, (1995) Immunol Today **16**: 194-201. A.H. Hombach, H Abken, et al. (2006) J Immunol 177: 5668-5675.

STORAGE CONDITIONS: ***Store at 2 - 5°C.*** **Do not freeze! Protect from light.**

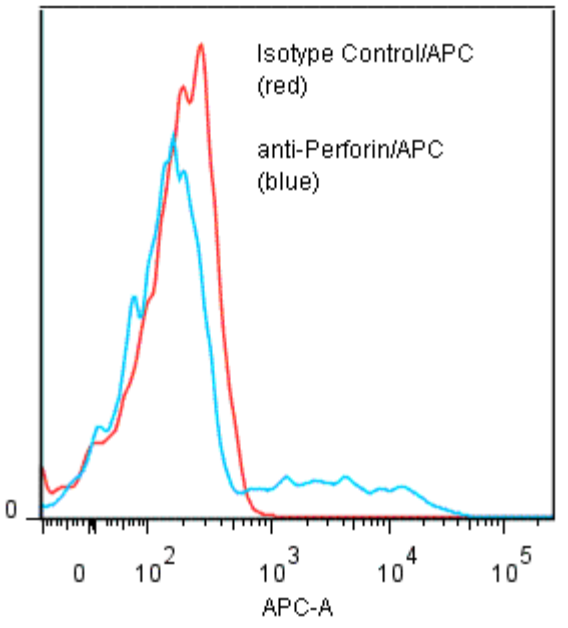
PRODUCT STABILITY: Product should retain activity for at least 12 months after shipping date when stored as recommended. Ship Date:_____

BUFFER: 50 mM Sodium Phosphate pH 7.5, 500 mM Potassium Chloride, 150mM NaCl, 15% Glycerol, 0.2% BSA, 0.04% 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 approximately **0.25 mg/ml** with an APC : mAb molar ratio of 1.13 .

PERFORMANCE: Ficoll prepared human **peripheral blood mononuclear cells** were stimulated by incubating 2 days at 5 x 10^6 cells/ml in RPMI 10% FBS media including 5 µg/ml Phytohemagglutinin-P. Cells were then fixed for 30 min with 2% buffered formaldehyde after which they were washed two times. Subsequent reagent incubations and washes were done using a buffer containing **0.3% Saponin** to permeabolize cells. Five x 10^5 cells per tube were washed and incubated 45 minutes on ice with 80 µl of anti-perforin/APC at a **1:50** dilution (5 µg/ml). Cells were washed three times, fixed and analyzed by FACS. A net **16.1%** sub population of the cells shifted positively with a mean shift of **1.49** $\log_{10}$ fluorescent units when compared to an IgG2b/R-PE isotype Control (cat #284-060). Binding was blocked when cells were pre incubated 10 minutes with 20 µl of 0.5 mg/ml unlabeled anti-perforin antibody (Catalog #358-020).

Binding of anti-Perforin/APC to fixed permeabolized stimulated human PBL



**** Research Use Only. Not for use in Diagnostic procedures.***

Ancell Corporation P.O. Box 87 Bayport, MN 55003-0087 USA
Phone: Toll free 800-374-9523 or 612-439-0835 Fax: 612-439-1940