## PERFORMANCE DATA SHEET

2520

## Monoclonal anti-human Perforin\*



*mAb name/Clone:* delta G9 *Isotype:* Mouse IgG2b

Immunogen: Purified granules from human YT lymphoma cell line

**CATALOG#: 358-020 QUANTITY: 100 μg** 

CONCENTRATION: 1.0 mg/ml

**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<sup>+</sup> cytotoxic cells upon activation. Antibody delta G9 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.

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**STORAGE CONDITIONS:** *Store at 2 - 5<sup>o</sup>C*. Freeze/Thawing is not recommended.

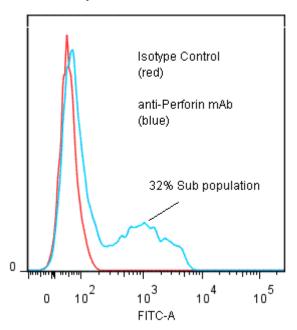
**PRODUCT STABILITY:** Product should retain activity for at least 12 months after shipping date when stored as recommended. Ship Date:\_\_\_\_\_

**BUFFER:** 50 mM Sodium Phosphate pH 7.5, 100 mM Potassium Chloride, 150mM NaCl, 0.5 mg/ml Gentamicin Sulfate (as a preservative).

**PRODUCTION:** Antibody was Protein A purified from (low FBS containing) tissue culture supernatant. Purity was >95% Immunoglobulin by SDS-PAGE with less than 1% Bovine Immunoglobulin.

PERFORMANCE: Ficoll prepared human peripheral **blood mononuclear cells** were stimulated by incubating 2 days at 5 x 106 cells/ml in RPMI 10% FBS media including 5 ug/ml Phytohemagglutinin-P. Cells were then fixed for 30 minutes 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<sup>5</sup> cells per tube were washed and incubated 45 minutes on ice with 80 µl of anti-perforin antibody at 1 µg/ml. They were then washed twice and incubated with 20 reagent Goat anti-Mouse IgG/FITC (Catalog #232-011), after which they were washed three times, fixed and analyzed by FACS using a PBMC gate. A net 32% sub population of the cells stained positive with a mean shift of 1.51 log<sub>10</sub> fluorescent units when compared to a Mouse IgG2b negative control (Catalog #284-020).

## Binding of anti-Perforin mAb +GAM/FITC to fixed, permeabolized human PBMC



<sup>\*</sup> Research Use Only. Not for use in Diagnostic procedures.