

## PERFORMANCE DATA SHEET

2038

# Monoclonal anti-human CD27/R-PE\*

**mAb name/Clone:** M-T271

**Isotype:** Mouse IgG1

**Immunogen:** T cell line (from patient with CLL)

**CATALOG#:** 176-050

**QUANTITY:** 120 tests

**VOLUME IN VIAL:** 0.2 ml

**WORKING DILUTION:** 1:50 (or use 1.6µl of concentrated stock per 5 x 10<sup>5</sup>-cell test)

**INFORMATION:** Human CD27 is a lymphocyte specific member of the tumor necrosis factor (TNF) receptor family and is found primarily on peripheral blood T cells and on a subpopulation of B cells and NK cells. The ligand for CD27 is CD70, which is a member of the TNF ligand superfamily. Antibody M-T271 recognizes the dimeric CD27 molecule of approximately 110 kd.

**References:** Leukocyte Typing IV (W. Knapp, et al, eds.) Oxford University Press, Oxford, (1989) p. 350-352.  
K. Agematsu, et al, (1994) J Immunol **153**: 1421-1429. R.Q. Hintzen, et al, (1994) Immunol Today **15**: 307-311.  
Leukocyte Typing V (S.F. Schlossman, et al, eds.) Oxford University Press, Oxford, (1995) p. 356-360, 435-437.  
K. Agematsu, et al, (1995) J Immunol **154**: 3627-3635.

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

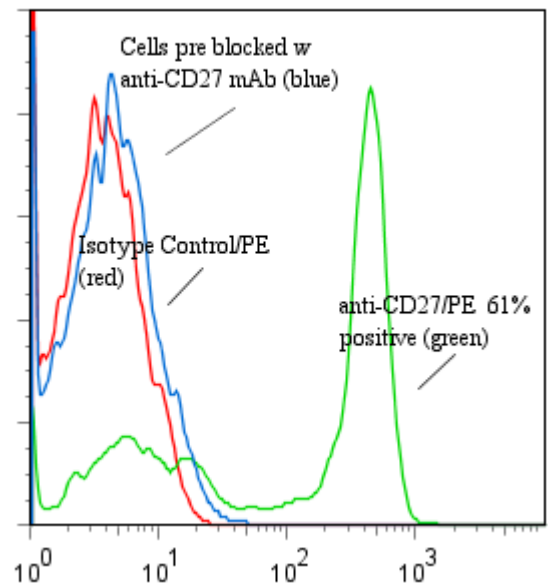
**PRODUCT STABILITY:** Product should retain activity for at least 12 months after shipping date when stored as recommended. Ship Date: \_\_\_\_\_

**BUFFER:** 50 mM Sodium Phosphate pH 7.5, 500 mM Potassium Chloride, 150mM NaCl, 15% Glycerol, 0.2% BSA, 0.04% NaN<sub>3</sub> (as a preservative).

**PRODUCTION:** Protein A purified antibody from tissue culture supernatant was conjugated to R-Phycoerythrin through a sulfo-ester linkage. Unconjugated antibody was removed using size exclusion chromatography. Antibody conjugate is at **0.25 mg/ml** with an OD565/OD280 ratio of 2.9.

**PERFORMANCE:** Five x 10<sup>5</sup> ficoll prepared **human peripheral blood mononuclear cells** were washed and pre incubated 5 minutes with 20 µl of 250 µg/ml human IgG (to block non specific binding) after which they were washed and incubated 45 minutes on ice with 80 µl of anti-CD27/R-PE at a **1:50** dilution (5 µg/ml). Cells were washed three times, fixed and analyzed by FACS. A net **61%** subpopulation of cells stained positive with a mean shift of **1.97** log<sub>10</sub> fluorescent units when compared to a Mouse IgG1/PE negative control (Catalog #278-050) at a similar concentration. Binding was blocked when cells were pre incubated 10 minutes with 20 µl of 0.5 mg/ml anti-CD27 antibody (Catalog #176-020).

### Binding of anti-CD27/PE to human PBMC



**\*This Product is intended for Laboratory Research use only.** R-Phycoerythrin (R-PE) is covered under patents: U.S. 4,520,110; European 76,695 and Canadian 1,179,942.

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