

## PERFORMANCE DATA SHEET

1816

### Monoclonal anti-human CD27/Biotin\*

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

**Isotype:** Mouse IgG1

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

**CATALOG#:** 176-030

**QUANTITY:** 100 µg

**CONCENTRATION:** 1.0 mg/ml

**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. Freeze/Thawing is not recommended.

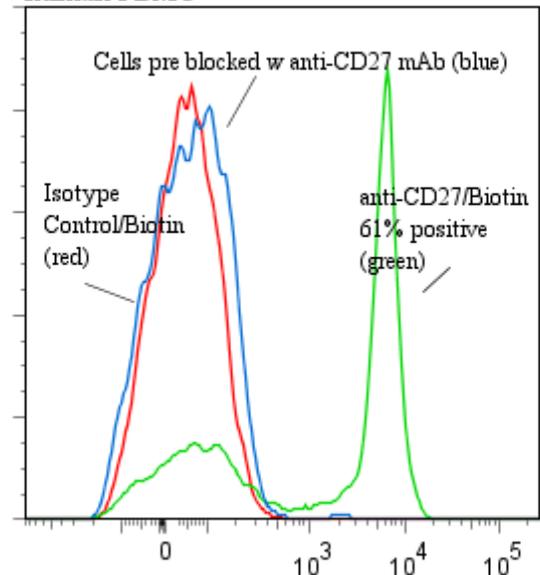
**PRODUCT STABILITY:** Product should retain activity for at least 12 months after shipping date when stored as recommended. Ship Date: \_\_\_\_\_

**BUFFER:** 50 mM Sodium Phosphate pH 7.5, 100 mM Potassium Chloride, 150mM NaCl, 5% Glycerol, 0.2% BSA, 0.04% NaN<sub>3</sub> (as a preservative).

**PRODUCTION:** Antibody from (low FBS containing) tissue culture supernatant was Protein A purified to >95% mouse immunoglobulin by SDS-PAGE (<1% bovine immunoglobulin), and reacted with NHS-Biotin. Unconjugated Biotin was removed from conjugate using a desalting column.

**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 incubated 45 minutes with 80 µl of anti-CD27/Biotin at 5 µg/ml. Cells were washed twice and incubated with 2<sup>o</sup> reagent Streptavidin R-Phycoerythrin (Catalog #253-050), after which they were washed three times, fixed and analyzed by FACS. A net 61% sub population of the cells stained positive with a mean shift of 1.65 log<sub>10</sub> fluorescent units when compared to a Mouse IgG1/Biotin negative control (Catalog #278-030) 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/Biotin +SA/PE to human PBMC**



*\*This Product is intended for Laboratory Research use only.*