## PERFORMANCE DATA SHEET

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## Monoclonal anti-human CD28 (stimulating)\*

mAb name/Clone: ANC28.1/5D10

*Isotype:* Mouse IgG1κ

Immunogen: Human CD28 Ig fusion protein and HPB-MLT human tumor cells

CATALOG#: 177-020 QUANTITY: 100 μg

**CONCENTRATION: 1.0 mg/ml** 

**INFORMATION:** Human CD28 is an important costimulatory molecule found on all CD4+ T cells and on about half of the CD8+ T cells. T cell activities attributed to CD28 include prevention of anergy, induction of cytokine gene transcription, stabilization of cytokine mRNA and activation of CD8+ cytotoxic T lymphocytes. The ligands for CD28 identified as CD80(B7-1) and CD86(B7-2), are immunoglobulin superfamily monomeric transmembrane glycoproteins of 60 kd and 80 kd respectively. Anti-CD28 antibodies have recently been shown to have a strong adjuvant effect when conjugated to the immunogen (4). Antibody ANC28.1 recognizes CD28 expressed on human T cells and also on BHK cells transfected with human CD28. Monomeric and cross linked ANC28.1 will stimulate expression of IL-2 from CD28+ cells. **References:** (1) M.K. Jenkins & J.G. Johnson, (1993) *Curr Opin Immunol* 5: 361-367. (2) 61st Forum in Immunology, (1995) *Res Immunol* 146: 127-205. (3) I. Kariv, A. Truneh & R.W. Sweet, (1996) *J Immunol* 157: 29-38. (4) J. Carling, et al, (2003) *J Immunol* 33: 135-142.

**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:\_\_\_\_\_\_

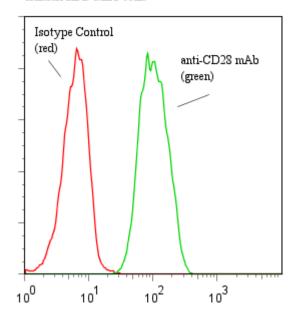
**BUFFER:** 50 mM Sodium Phosphate pH 7.5, 100 mM Potassium Chloride, 150mM NaCl, 0.5 mg/ml Gentamicin Sulfate (as a preservative).

**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:** Five x  $10^5$  cultured **HPB-MLT** cells per tube were washed and incubated 45 minutes on ice with 80  $\mu$ l of anti-CD28 antibody at **5**  $\mu$ g/ml. Cells were washed twice and incubated with  $2^{\circ}$  reagent Goat anti-Mouse IgG/FITC (Catalog #232-011), after which they were washed three times, fixed and analyzed by FACS. Cells stained positive with a mean shift of **1.26** log<sub>10</sub> fluorescent units when compared to a Mouse IgG1 negative control (Catalog #278-010) at a similar concentration.

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

## Binding of anti-CD28 mAb +GAM/FTTC to human HPB-MLT cells



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