## PERFORMANCE DATA SHEET <sup>1816</sup> Monoclonal anti-human CD28 (stimulating) F(ab')<sub>2</sub>\*

*mAb name/Clone:* ANC28.1/5D10 *Isotype:* Mouse IgG1κ *Immunogen:* Human CD28 Ig fusion protein and HPB-MLT human tumor cells

## CATALOG#: 177-520 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 immunglobulin superfamily monomeric transmembrane glycoproteins of 60 kd and 80 kd respectively. 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<sup>+</sup> cells.

*References:* M.K. Jenkins & J.G. Johnson, (1993) Curr Opin Immunol **5**: 361-367. 61st Forum in Immunology, (1995) Res Immunol **146**: 127-205. I. Kariv, A. Truneh & R.W. Sweet, (1996) J Immunol **157**: 29-38.

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

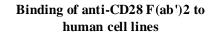
**PRODUCT STABILITY:** Product should retain activity for at least 12 months after shipping date when stored as recommended. Ship Date:\_\_\_\_\_\_

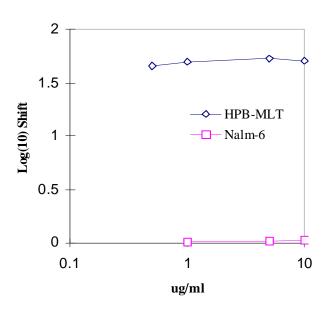
**BUFFER:** 50 mM Sodium Phosphate pH 7.5, 100 mM Potassium Chloride, 150mM NaCl. Product was sterile filtered and vialed under aseptic conditions. **No preservative added**.

**PRODUCTION:** Antibody was Protein A purified from (low FBS containing) tissue culture supernatant. Immunoglobulin was enzymaticly cleaved using Immobilized Ficin.  $F(ab')_2$  was separated from intact antibody and Fc fragments by Protein A and Size exclusion chromatography. Purity was >90%  $F(ab')_2$  by SDS-PAGE.

**PERFORMANCE:** Five x  $10^5$  cultured human **HPB-MLT** cells were washed and incubated 45 minutes on ice with 80 µl of anti-CD28 F(ab')2 at **5 µg/ml**. Cells were washed twice and incubated with 50 µl of  $2^{\circ}$  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 **1.73** 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.





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