PERFORMANCE DATA SHEET ¹⁸¹⁶ Monoclonal anti-human CD28 (stimulating) F(ab')₂*

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⁺ 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^oC*. **Open under aseptic conditions.** Freeze/Thawing is not recommended.

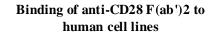
PRODUCT STABILITY: Product should retain activity for at least 12 months after shipping date when stored as recommended. Ship Date:______

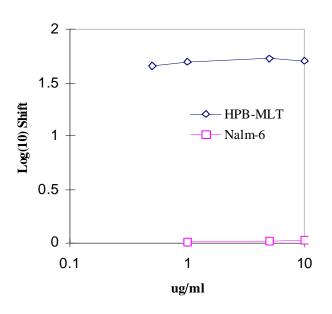
BUFFER: 50 mM Sodium Phosphate pH 7.5, 100 mM Potassium Chloride, 150mM NaCl. Product was sterile filtered and vialed under aseptic conditions. **No preservative added**.

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° 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** log₁₀ 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.





Ancell Corporation P.O. Box 87 243 Third Street North Bayport, MN 55003-0087 USA Phone: Toll free 800-374-9523 or 651-439-0835 Fax: 651-439-1940