

PERFORMANCE DATA SHEET

3321

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 immunoglobulin 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°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 vialled under aseptic conditions. **No preservative added.**

PRODUCTION: Antibody was Protein A purified from (low FBS containing) tissue culture supernatant. Immunoglobulin was enzymatically 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 10⁵ cultured human **HPB-MLT** cells were washed and incubated 45 minutes on ice with 80 µl of anti-CD28 F(ab')₂ at 10 µg/ml. Cells were washed twice and incubated with 50 µl of 2^o 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 0.99 log₁₀ fluorescent units when compared to a Mouse IgG1 negative control (Catalog #278-010).

**Research use only. Not for use in Diagnostic procedures.*

Binding of anti-CD28 F(ab')₂ +GAM/FITC to human HPB-MLT cells

