PERFORMANCE DATA SHEET 2732 Monoclonal anti-human CD28/R-PE*



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

CATALOG#: 177-050VOLUME IN VIAL: 0.2 mlQUANTITY: 120 testsVOLUME IN VIAL: 0.2 mlWORKING DILUTION: 1:50 (or use 1.6μl of concentrated stock per 5 x 10⁵-cell test)

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. 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°C. Do not freeze! Protect from light.

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

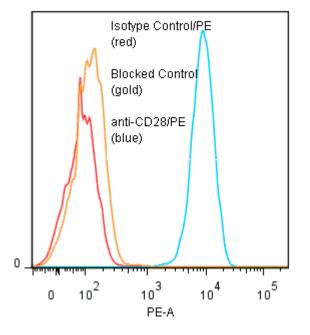
BUFFER: 50 mM Sodium Phosphate pH 7.5, 500 mM Potassium Chloride, 150mM NaCl, 15% Glycerol, 0.2% BSA, 0.04% NaN₃ (as a preservative).

PRODUCTION: Protein A purified antibody from tissue culture supernatant was conjugated to R-Phycoerythrin through a sulfo-ester linkage. Unconjugated antibody was removed using size exclusion chromatography. Antibody conjugate is at **0.5 mg/ml** with an A_{565}/A_{280} ratio of 2.65.

PERFORMANCE: Five x 10^5 cultured **HPB-MLT** cells were washed and incubated 45 minutes on ice with 80 µl of anti-CD28/R-PE at a **1:50** dilution (10µg/ml). Cells were washed three times, fixed and analyzed by FACS. Cells stained positive with a mean shift of **2.03** log₁₀ fluorescent units when compared to a Mouse IgG1/R-PE negative control (Catalog #278-050). Binding was blocked when cells were pre incubated 10 minutes with 20 µl of 0.5 mg/ml anti-CD28 antibody (Catalog #177-020).

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

Binding of anti-CD28/PE to human HPB-MLT cells



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