PERFORMANCE DATA SHEET
2801

Monoclonal anti-human CD275(GL50,B7-H2, ICOS L, B7RP-1)*

mAb name/Clone: **ANC4E3**
Isotype: Mouse IgG1κ
Immunogen: Human Raji cells, human GL50-muIg fusion protein

CATALOG#: 263-820 (Preservative Free)
QUANTITY: 100 μg **CONCENTRATION: 1.0 mg/ml**

INFORMATION : The inducible costimulator (ICOS, T cell activation molecule H4) is similar to human CD28 (24% homology), and plays an analogous role in the T cell activation process. Unlike CD28, ICOS is only expressed on activated T cells. Secondary signaling through CD28 or ICOS results in discrete cytokine secretion profiles by the activated T cells(1). Engagement of CD152 (CTLA-4) anergizes cells costimulated with either CD28 and ICOS(2). Signaling through ICOS is particularly important in progression of TH2 immune response (5). The receptor for human ICOS is GL50(ICOS L), a member of the B7 family sharing ~20% homology with CD80 (B7-1) and CD86 (B7-2)(3). Two RNA splice variants exist for this molecule, differing only in the cytoplasmic domain(4). Blockade of the ICOS-GL50 interaction in mice improves allograft survival(6) and reduces EAE(7). Antibody ANC4E3 binds to the surface of Raji cells in Flow cytometry, and is blocked by preincubation with recombinant human GL50-muIg.
REFERENCES: 1) Beier, K.C., R.A. Kroczek, et al. 2000, *Eur J Immunol*. 30(12):3707-3717. **2)** Riley, J.L., C.H. June, et al. 2001, *J. Immunol.* 166: 4943-4948. **3)** Ling, V., M. Collins, et al. 2000, *J. Immunol.* 164: 1653-1657. **4)** Ling, V., M. Collins, et al. 2001, *J. Immunol.* 166: 7300-7308. **5)** K.C. Beier, et al, (2000) *Eur J Immunol* 30: 3707-3717. **6)** E. Ozkaynak, et al, (2001) *Nat Immunol* 2: 591-596. **7)** J.B. Rottman, et al, (2001) *Nat Immunol* 2: 605-611.

STORAGE CONDITIONS: ***Store at 2 - 5^{o}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.

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. Product was 0.2 μm filtered and vialed under aseptic conditions.

PERFORMANCE: Anti-CD275 was reactive in EIA using with immobilized recombinant ICOSL(CD275)-muIg (Cat #575-020) and GAM(Fab-specific)/HRP detection. A **50.5 - fold signal / noise** ratio was observed at **500 ng/ml**.

**** Research Use Only. Not for use in Diagnostic procedures.***

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