PERFORMANCE DATA SHEET
1945

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

mAb name/Clone: **ANC4E3**
Isotype: Mouse IgG1κ
Immunogen: Human Raji cells, human CD275(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-ICOSL interaction in mice improves allograft survival(6) and reduces EAE(7). Antibody ANC4E3 binds to recombinant CD275 in EIA. It does not block the interaction between recombinant CD278 and CD275.
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 >90% by SDS-PAGE. Product was 0.2 μm filtered and vialed under aseptic conditions.

PERFORMANCE: Anti-CD275 antibody was reactive with immobilized recombinant CD275-muIg (cat# 575-020) in EIA at a detection concentration of **10 ng/ml**. Fab specific Goat anti-mouse IgG/HRP was used as a secondary detection reagent.

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

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