

# PERFORMANCE DATA SHEET

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## Monoclonal anti-human CD278 (ICOS)\*

**mAb name/Clone:** ANC6C6

**Isotype:** Mouse IgG1κ

**Immunogen:** Human HPB-MLT cells, human ICOS-muIg fusion protein

**CATALOG#:** 265-820 (Preservative-free)

**QUANTITY:** 100 µg

**CONCENTRATION:** 1.0 mg/ml

**INFORMATION:** The inducible costimulator CD278 (ICOS, T cell activation molecule H4) is similar to human CD28 (24% homology), and plays an analogous role in the T cell activation process. Secondary signaling through CD28 or ICOS results in discrete cytokine secretion profiles by the activated T cells.<sup>1</sup> Signaling by either molecule is effectively down regulated by CD152 (CTLA-4) engagement.<sup>2</sup> Human GL50 is a member of the B7 family sharing ~20% homology with CD80 (B7-1) and CD86 (B7-2), and has been shown to be the ligand for ICOS.<sup>3</sup> Two RNA splice variants exist for this molecule, differing only in the cytoplasmic domain.<sup>4</sup>

Antibody ANC6C6 binds to recombinant ICOS-muIg in EIA, and to the surface of HPB-MLT cells in Flow cytometry. Additionally, it blocks binding of recombinant GL50-muIg to HPB-MLT cells.

**References:** 1) Beier, K.C., R.A. Kroczeck, 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.

**STORAGE CONDITIONS:** Store at 2 - 5°C. Freeze/Thawing is not recommended. *Open under aseptic conditions.*

**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 and contains less than 1% Bovine Immunoglobulin. Product was 0.2µ sterile filtered and **viald under aseptic conditions.**

**PERFORMANCE:** Five x 10<sup>5</sup> human **HPB-MLT** cells were washed incubated 45 minutes on ice with 80 µl of anti-human ICOS antibody at **1 µg/ml**. Cells were washed twice and incubated with Goat-anti-Mouse/FITC, after which they were washed twice, fixed and analyzed by FACS. Cells stained positive with a mean shift of **0.63 log<sub>10</sub>** fluorescent units when compared to isotype control Mouse IgG1 antibody (catalog # 278-010).

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

**Binding of anti-CD278 mAb +GAM/FITC to human HPB-MLT cells**

