Monoclonal anti-human CD278(ICOS)/Biotin*

mAb name/Clone: ANC6C6 *Isotype:* Mouse IgG1κ

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

CATALOG#: 265-030 QUANTITY: 100 μg

CONCENTRATION: 0.5 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. Signaling by either molecule is effectively down regulated by CD152 (CTLA-4) engagement. Human CD275 (GL50, B7-H2) is a member of the B7 family sharing ~20% homology with CD80 (B7-1) and CD86 (B7-2), and has been shown to be a ligand for ICOS. Two RNA splice variants exist for this molecule, differing only in the cytoplasmic domain.

Antibody ANC6C6 binds to recombinant ICOS in EIA, and to the surface of stimulated PBL and HPB-MLT tumor cells in Flow cytometry. Additionally, it blocks binding of recombinant CD275-muIg to HPB-MLT cells.

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.

STORAGE CONDITIONS: *Store at 2 - 5^oC*. Freeze/thawing not recommended.

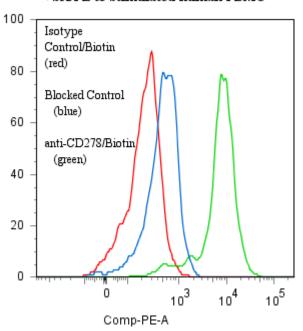
PRODUCT STABILITY: Product should retain activity for at least 12 months after shipping date when stored as recommended. Ship Date:_____

BUFFER: 50 mM Sodium Phosphate pH 7.5, 100 mM Potassium Chloride, 150mM NaCl, 5% Glycerol, 0.2% BSA, 0.04% NaN₃ (as a preservative).

PRODUCTION: Antibody from (low FBS containing) tissue culture supernatant was Protein A purified to >95% mouse immunoglobulin by SDS-PAGE (<1% bovine immunoglobulin), and reacted with NHS-Biotin. Unconjugated Biotin was removed from conjugate using a desalting column.

PERFORMANCE: Ficoll prepared human **peripheral blood mononuclear cells** were stimulated 5 days in culture with 5 μg/ml PHA after which they were harvested and washed in FACS buffer. Five x 10^5 cells per tube were pre incubated 5 minutes with 20 μl of 300 μg/ml human IgG (to block non specific binding) after which they were incubated 45 minutes on ice with 80 ml of anti-CD278/Biotin at **10 μg/ml**. Cells were washed twice and incubated with 2^0 reagent Streptavidin/R-PE (Catalog #253-050) after which they were washed three times, fixed and analyzed by FACS using a lymphoid gate. Cells stained positive with a mean shift of **1.53** \log_{10} fluorescent units when compared to a Mouse IgG1/Biotin negative control (Catalog #278-030) at a similar concentration. Binding was blocked when cells were pre incubated 10 minutes with 20 μl of 0.5 mg/ml anti-CD278 antibody (Catalog #265-020).

Binding of anti-CD278(ICOS)/Biotin +SA/PE to stimulated human PBMC



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^{*}This Product is intended for Laboratory Research use only.