PERFORMANCE DATA SHEET
2011

Monoclonal anti-human CD274 (B7-H1, PD-L1)/FITC*

mAb name/Clone: **ANC6H1**
Isotype: Mouse IgG1κ
Immunogen: Recombinant human CD274

CATALOG#: 274-040
QUANTITY: 120 tests **VOLUME IN VIAL: 0.2 ml**
WORKING DILUTION: 1:50 (or use 1.6µl of concentrated stock per 5 x 10^5-cell test)

INFORMATION: CD274 (B7-H1, PD-L1, Programmed Death Ligand) is a member of the B7 family and is expressed on a variety of tissues including lymphoid cells. It plays an important role in regulation of T cell activation, and is involved in progression of cancer, arthritis and HIV infection (3). CD274 binding to its receptor CD279 (PD-1) on activated T cells can decrease proliferation. Conversely, ligation of CD279 on primed T cells can stimulate IL-10 production. High levels of CD274 present in Renal cell carcinoma is associated with poor prognosis (1). Tumor expressed CD274 can increase apoptosis of tumor specific T cells resulting in better tumor cell survival (2). Gamma Interferon and PHA can up regulate CD274 expression on T cells. Antibody ANC6H1 binds to recombinant CD274 and native cell surface CD274 expressed on stimulated PBMC.

REFERENCES: **1)**Cancer Research (April 2006) **66**:3381. **2)**J Molecular Medicine (Feb 2004) **81**(5):281. **3)**Int J Hematol (Nov 2003) 78(4):321.

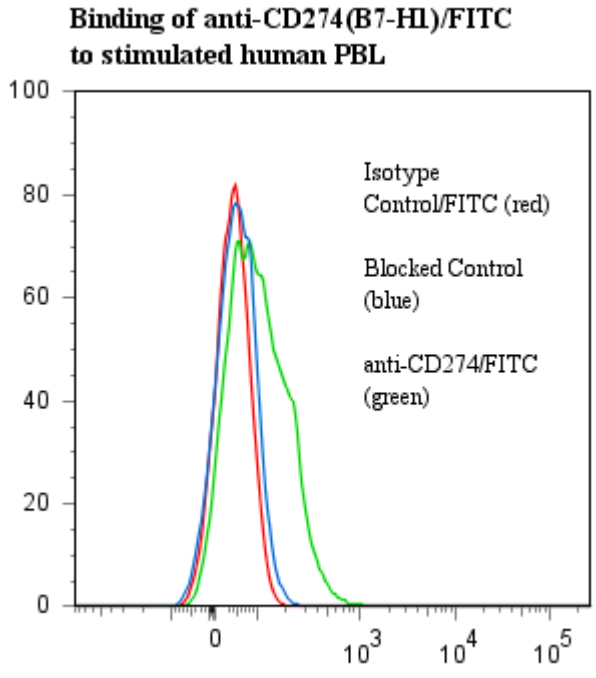
STORAGE CONDITIONS: ***Store at 2 - 5°C.*** **Do not freeze! Protect from light.**

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, 100 mM Potassium Chloride, 150mM NaCl, 5% Glycerol, 0.2% BSA, 0.04% NaN_3 (as a preservative).

PRODUCTION: Protein A purified antibody from tissue culture supernatant was reacted with FITC. Unconjugated FITC was separated from antibody/FITC conjugate by desalting column. The antibody/FITC conjugate is at approximately **0.5 mg/ml** with a Fluorescein/IgG molar ratio of 10.5.

PERFORMANCE: Ficoll prepared human peripheral blood mononuclear cells (PBMC) were stimulated overnight in culture with 5 µg/ml PHA. Five x 10^5 cells per tube were washed and pre incubated 5 minutes with 20µl of 250µg/ml human IgG (to block non specific binding), after which they were incubated 45 minutes on ice with 80 µl of anti-human CD274/FITC at a **1:50** dilution (10 µg/ml). They were washed three times, fixed and analyzed by FACS. Cells stained positive with a mean shift of **0.5** $\log_{10}$ fluorescent units when compared to a Mouse IgG1/FITC negative control (Catalog #278-040) at a similar concentration. Binding was blocked when cells were pre incubated 10 minutes with 20 µl of 0.5 mg/ml anti-CD274 antibody (Catalog #274-020).



This Product is intended for Laboratory Research use only.
R-Phycoerythrin (R-PE) is covered under patents: U.S. 4,520,110; European 76,695 and Canadian 1,179,942.

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