

## PERFORMANCE DATA SHEET

1818

# Monoclonal anti-human CD274 (B7-H1, PD-L1)\*

**mAb name/Clone:** ANC6H1

**Isotype:** Mouse IgG1 $\kappa$

**Immunogen:** Recombinant human CD274

**CATALOG#:** 274-820 (Preservative-free)

**QUANTITY:** 100  $\mu$ g

**CONCENTRATION:** 1.0 mg/ml

**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. 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:\_\_\_\_\_

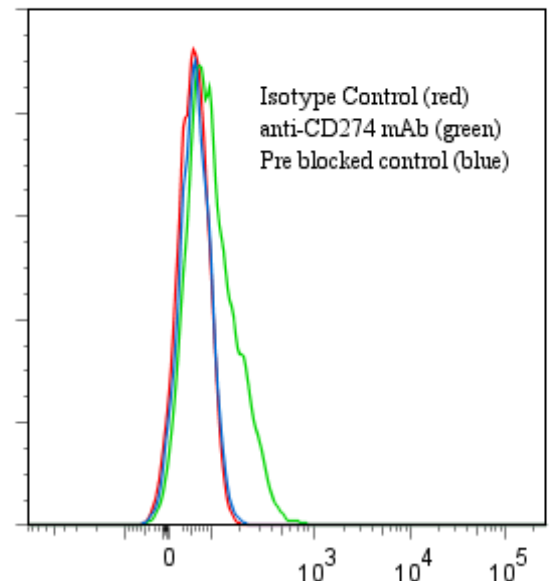
**BUFFER:** 50 mM Sodium Phosphate pH 7.5, 100 mM Potassium Chloride, 150mM NaCl.

**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 0.2 $\mu$  sterile filtered and vialled under aseptic conditions.

**PERFORMANCE:** Ficoll prepared human peripheral blood mononuclear cells (PBMC) were stimulated overnight in culture with 5  $\mu$ g/ml PHA. Five x 10<sup>5</sup> cells per tube were washed and incubated 45 minutes on ice with 80 ul of anti-human CD274 antibody at concentration of 5  $\mu$ g/ml. They were then washed twice and incubated with Goat-anti-Mouse/FITC (Cat# 232-011), after which they were washed twice, fixed and analyzed by FACS using a lymphoid gate. Cells stained positive with a mean shift of 0.33 log<sub>10</sub> fluorescent units when compared to isotype control Mouse IgG1 antibody (catalog #278-010). Binding was blocked when reagent was pre incubated with a 10-fold excess of recombinant CD274-muIg (cat# 541-020).

*\*This Product is intended for Laboratory Research use only.*

**Binding of anti-CD274(B7-H1) mAb + GAM/FITC to stimulated human PBMC**



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