

## PERFORMANCE DATA SHEET

2134

### *Monoclonal anti-human CD273(B7-DC, PD-L2)/Biotin\**

**mAb name/Clone:** ANC8D12

**Isotype:** Mouse IgG2ak

**Immunogen:** Recombinant human CD273

**CATALOG#:** 273-030

**QUANTITY:** 100 µg

**CONCENTRATION:** 1.0 mg/ml

**INFORMATION:** CD273 (B7-DC, PD-L2, Programmed Death Ligand 2) is a 25 kd member of the B7 family and is expressed mainly on a sub set of Dendritic cells. When engaged it has a stimulatory effect on the expressing DC, and delivers a down regulatory signal to cells expressing its counter receptor, CD279(PD-1). The interaction of CD273(B7-DC) and CD274(B7-H1) with their receptor, CD279(PD-1) is an important component of immune regulation.

Antibody ANC8D12 binds to recombinant CD273 and cell surface CD273 expressed on monocyte derived Dendritic cells (moDC), and blocks binding of recombinant CD279 to CD273 in EIA and FACS.

**REFERENCES:** 1) Carreno BM, et al. (2002) *Annu. Rev. Immunol.* **20**:29. 2) E Giancchetti, A Fierabracci, et al. (2013) *Autoimmun Rev* **12**(11): 1091-1100.

**STORAGE CONDITIONS:** Store at 2 - 5°C. 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, 5% Glycerol, 0.2% BSA, 0.04% NaN<sub>3</sub> (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:** Human monocyte derived Dendritic cells were prepared in 8 day culture. Five x 10<sup>5</sup> cells per tube were washed and incubated 45 minutes on ice with 80 ul of anti-human CD273/Biotin at concentration of **10 µg/ml**. They were then washed twice and incubated with Streptavidin/R-PE (Cat# 253-050), after which they were washed twice, fixed and analyzed by FACS. Cells stained positive with a mean shift of **1.39 log<sub>10</sub>** fluorescent units when compared to isotype control Mouse IgG2a/Biotin (catalog #281-030). Binding was blocked when reagent was pre incubated with a 10-fold excess of recombinant CD273-muIg (cat# 573-020).

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

#### Binding of anti-CD273/Biotin +SA/PE to human moDC

