## PERFORMANCE DATA SHEET

2440

## Monoclonal anti-human CD279(PD-1)\*



*mAb name/Clone:* ANC4H6 *Isotype:* Murine IgG1κ

Immunogen: Recombinant human CD279

**CATALOG#: 279-020 QUANTITY: 100 μg** 

**CONCENTRATION: 1.0 mg/ml** 

**INFORMATION:** Human CD279 (PD-1, Programmed death 1) is a 55 kd Ig superfamily member with sililarity to CD28 and CD152(CTLA-4). It is expressed on activated T and B and myeloid cells, and engagement by its ligands PD-L1 (CD274, B7-H1) or PD-L2 (B7-DC) can inhibit proliferation and cytokine expression. In mice blockade of PD-1 ligand interaction has been used to augment T cell anti cancer responses (3,4,5).

Anti-CD279 antibody clone ANC4H6 binds to CD279 present on PHA activated PBMC in FACS, and binds to recombinant CD279 in EIA. Pre incubation of recombinant CD279-coated plates with ANC4H6 blocks binding of biotinylated recombinant CD273 in EIA.

**References:** 1) Ishida et al. (1992) *EMBO J* 11(11):3887-95. 2) Carreno BM, M Collins, et al. (2001) *Annu Rev Immunol* 20:29. 3) MA Curran, Allison JP, et al. (2010) *PNAS* 107(9): 4275-80. 4) Mangsbo SM, TH Totterman, et al. (2010) *J Immunotherapy* 33(3):225. 5) Hirano F, L Chen, et al. (2005) *Canc Res* 65: 1089.

**STORAGE CONDITIONS:** *Store at 2 - 5<sup>o</sup>C*. Freeze/Thawing is not recommended.

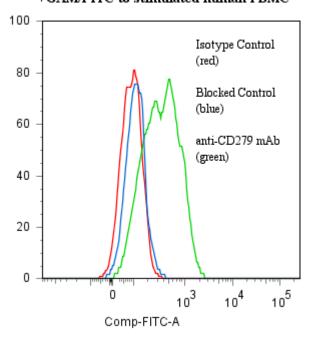
**PRODUCT STABILITY:** Product should retain activity for at least 12 months after shipping date when stored as recommended. Ship Date:\_\_\_\_\_

**BUFFER:** 50 mM Sodium Phosphate pH 7.5, 100 mM Potassium Chloride, 150mM NaCl, 0.5 mg/ml Gentamicin Sulfate (as a preservative).

**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.

**PERFORMANCE:** Ficoll prepared human peripheral blood mononuclear cells (**PBMC**) were stimulated 5 days in culture with 5 μg/ml Phytohemagglutanin (PHA). Five x 10<sup>5</sup> cells per tube were pre incubated 10 minutes with 250 μg/ml human IgG (to block nonspecific binding) after which they were incubated 45 minutes on ice with 80 μl of anti-CD279 antibody at **10 μg/ml**. Cells were washed twice and incubated with 2<sup>o</sup> reagent Goat anti-Mouse IgG/FITC (Catalog #232-011), after which they were washed three times, fixed and analyzed by FACS. Cells stained positive with a mean shift of **0.6** log<sub>10</sub> fluorescent units when compared to a Mouse IgG1 negative control (Catalog #278-010). Binding was blocked when antibody was pre incubated with a 10-fold excess of recombinant CD279-muIg.

Binding of anti-CD279(PD-1) mAb +GAM/FITC to stimulated human PBMC



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<sup>\*</sup> Research Use Only. Not for use in Diagnostic procedures.