

**PERFORMANCE DATA SHEET**

2440

**Monoclonal anti-human CD279(PD-1)/FITC\***

**mAb name/Clone:** ANC4H6

**Isotype:** Murine IgG1κ

**Immunogen:** Recombinant human CD279

**CATALOG#:** 279-040

**QUANTITY:** 120 tests

**VOLUME IN VIAL:** 0.2ml

**WORKING DILUTION:** 1:50 (or use 1.6µl of concentrated stock per 5 x 10<sup>5</sup>-cell test)

**INFORMATION:** Human CD279 (PD-1, Programmed death 1) is a 55 kd Ig superfamily member with similarity 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°C. Freeze/Thawing is not recommended. 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<sub>3</sub> (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 6.9.

**PERFORMANCE:** Ficoll prepared human peripheral blood mononuclear cells (PBMC) were stimulated 5 days in culture with 5 µg/ml Phytohemagglutinin (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 product at a 1:50 dilution (10 ug/ml). They were then washed three times, fixed and analyzed by FACS. Cells stained positive with a mean shift of 0.72 log<sub>10</sub> 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-CD279 antibody (Catalog #279-020).

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

**Binding of anti-CD279/FITC to stimulated human PBMC**

