

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 10⁵-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% NaN₃ (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 10⁵ 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 log₁₀ fluorescent units when compared to a Mouse IgG1/FITC negative control (Catalog # 278-040). 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.*

