PERFORMANCE DATA SHEET

Monoclonal anti-human CD271(NGFR)/FITC*



mAb name/Clone: ANC271/3D7

Isotype: Mouse IgG1k

Immunogen: Recombinant soluble human CD271

CATALOG#: 271-040 **QUANTITY: 120 tests WORKING DILUTION: 1:50** (or use 1.6µl of concentrated stock per 5 x 10⁵-cell test)

INFORMATION: The p75 low affinity human Nerve Growth Factor receptor CD271(NGRF, TNFRSF16) is expressed on a variety of tissue types including a subset of splenic and nodal lymphocytes. Presence of this receptor supports uptake of intracellular calcium, but not mobilization (3). CD271 is a stem cell marker for hematopoietic(5,6,7), stromal (8) as well as cancer cells (9,10). CD271 has been reported to inhibit differentiation of mesenchymal cells into various lineages(11).

VOLUME IN VIAL: 0.2ml

Antibody ANC271/3D7 binds to recombinant CD271-muIg (cat# 527-020) in EIA, and to endogenous CD271 on cell surface of human Reh cells.

REFERENCES: 1) Brodie C, E W Gelfand (1992) Journal of Immunology. 148(11): 3492-3497. 2) Fantini F, O. Johansson (1992) Journal of Investigative Dermatology. 99(6): 734-742. 3) Jiang H, G Gurogg, et al.(1999) J Biol Chem 274(37): 26209-16. 4) Khwaja F, D Djakiew, et al (2004) Cancer Res 64(17): 6207-13. 5) Flores-Torales E, Cuneo-Pareto S, et al. (2010) Folia Histochem Cytobiol. 48(4):682-6. 6) Kuçi S, Bader P, et al. (2010) Haematologica. 95(4):651-9. 7) Hermida-Gómez T, Blanco FJ, et al. (2011) Tissue Eng Part A. 17(7-8):1169-79. 8) Jones E, McGonagle D, et al. (2010) Arthritis Rheum. 62(7):1944-54. 9) Boiko AD, Weissman IL. Et al. (2010) Nature 466(7302):133-7. 10) Civenni G, Sommer L, et al. (2011) Cancer Res. 71(8):3098-109. 11) Mikami Y, Honda MJ, et al. (2011) Stem Cells Dev. 20(5):901-13.

STORAGE CONDITIONS: *Store at 2 - 5^oC.* 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:

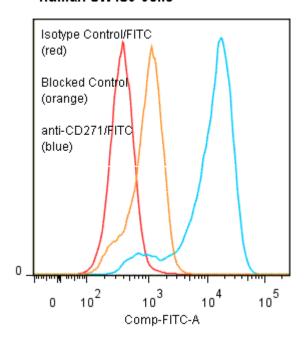
BUFFER: 50 mM Sodium Phosphate pH 7.5, 100 mM Potassium Chloride, 150mM NaCl, 5% Glycerol, 0.2% BSA, 0.04% NaN₃ (as a preservative).

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 **0.5 mg/ml** with a Fluorescein/IgG molar ratio of 9.2.

PERFORMANCE: Five x 10⁵ cultured human **SW480** cells were harvested by EDTA, washed and pre incubated with 20 ul of 300 µg/ml human IgG (to block non specific 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 $1.55 \log_{10}$ 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-CD271 antibody (Catalog #271-020).

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

Binding of anti-CD271/FITC to human SW480 cells



Ancell Corporation P.O. Box Bayport, MN 55003-0087 USA Phone: Toll free 800-374-9523 or 651-439-0835 Fax: 651-439-1940