

PERFORMANCE DATA SHEET
2010

Monoclonal anti-human CD133(AC133)/APC*

mAb name/Clone: ANC9C5

Isotype: Mouse IgG1k

Immunogen: WERI-Rb-1 human retinoblastoma cells

CATALOG#: 363-060

QUANTITY: 120 tests

VOLUME IN VIAL: 0.2 ml

WORKING DILUTION: 1:50 (or use 1.6µl of concentrated stock per 5 x 10⁵-cell test)

INFORMATION: Human CD133 is a 117kd 5 transmembrane protein expressed by a subset of hematopoietic stem cells found in blood and some other tissues. Increased expression of CD133 may be a predictor of decreased prognosis in patients with metastatic cancer(3).

Antibody ANC9C5 recognizes epitope 1 of human CD133(AC133) present on full length CD133 transfectants, Y-79 retinoblastoma, and other cell types.

References: 1) Miraglia S, Buck DW, et al. (1997) Blood 90(12): 5013-5021. 2) Shmelkov SV, Rafii S, et al. (2005) Int J Biochem Cell Biol 37(4): 715-9. 3) Mehra N, Voest EE, et al. (2006) Clin Canc Res 12(16): 4859-66.

STORAGE CONDITIONS: Store at 2 - 5°C. Do not freeze! Protect from light.

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

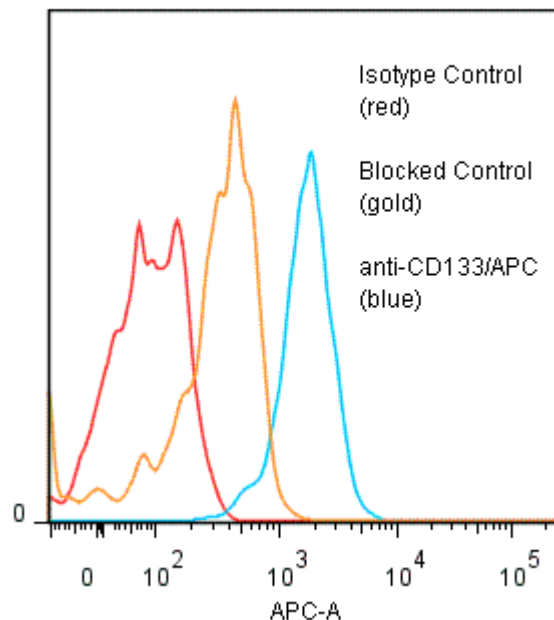
BUFFER: 50 mM Sodium Phosphate pH 7.5, 500 mM Potassium Chloride, 150mM NaCl, 15% Glycerol, 0.2% BSA, 0.04% NaN₃ (as a preservative).

PRODUCTION: Protein A purified antibody from tissue culture supernatant was conjugated to cross-linked Allophycocyanin through a sulfo-ester linkage. Unconjugated antibody was removed using size exclusion chromatography. Antibody conjugate is at approximately 0.5 mg/ml with an A₆₅₀/A₂₈₀ ratio of 2.0.

PERFORMANCE: Antibody ANC9C5 was tested for its ability to bind to full length CD133 transfectants Y-79 retinoblastoma cells, and other CD133+ cells in flow cytometry.

Five x 10⁵ human Y-79 tumor cells per tube were pre incubated with 20 µl of 250 µg/ml human Ig (to block non specific binding) after which they were incubated 45 minutes on ice with 80 µl of anti-CD133/APC at a dilution factor of 1:50 (10 µg/ml), after which they were washed three times, fixed and analyzed by FACS. Cells stained positive with a mean shift of 1.11 log₁₀ fluorescent units when compared to a Mouse IgG1/APC negative control (Catalog #278-060). Binding was blocked when cells were pre incubated 10 minutes with 20 µl of 0.5 mg/ml unconjugated anti-CD133 antibody (Catalog #363-020).

Binding of anti-CD133/APC to human Y-79 retinoblastoma



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