

PERFORMANCE DATA SHEET

2907

Monoclonal anti-human CD133(AC133)/Biotin*

mAb name/Clone: ANC9C5

Isotype: Mouse IgG1k

Immunogen: WERI-Rb-1 human retinoblastoma cells

CATALOG#: 363-030

QUANTITY: 100 µg

CONCENTRATION: 1.0 mg/ml

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. Freeze/thawing not recommended.

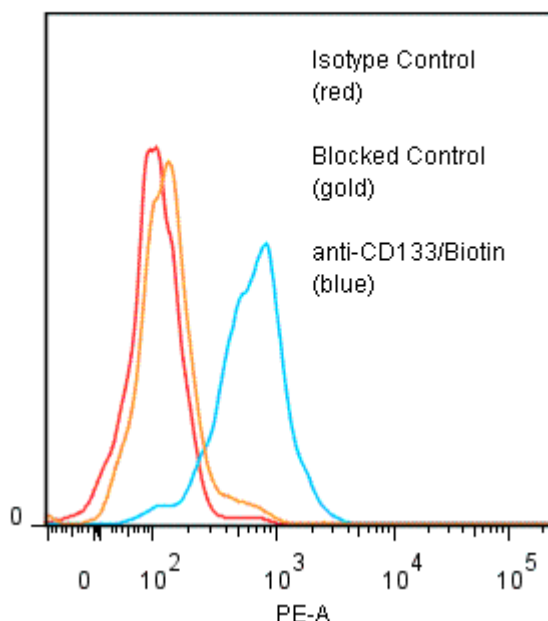
PRODUCT STABILITY: Product should retain activity for at least 12 months after shipping date when stored as recommended. Ship Date:_____

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

PRODUCTION: Antibody from tissue culture supernatant was purified by Protein A and size exclusion chromatography and reacted with NHS-Biotin. Unconjugated Biotin was removed from conjugate using a desalting column.

PERFORMANCE: Antibody ANC9C5 was tested for its ability to bind to human Y-79 retinoblastoma cells in flow cytometry. Five x 10⁵ 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/Biotin at a concentration of 5 µg/ml Cells were washed twice and incubated with Streptavidin/PE (cat #253-050), after which they were washed three times, fixed and analyzed by FACS. Cells stained positive for CD133 with a mean shift of 0.8 log₁₀ fluorescent units when compared to a Mouse IgG1/Biotin negative control (Catalog #278-030). Binding was blocked when cells were pre incubated 10 minutes with 20 µl of 0.5 mg/ml of unconjugated anti-CD133 antibody (Catalog #363-020).

Binding of anti-CD1133/Biotin +SA/PE to human Y-79 cells



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