

**PERFORMANCE DATA SHEET**

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**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.

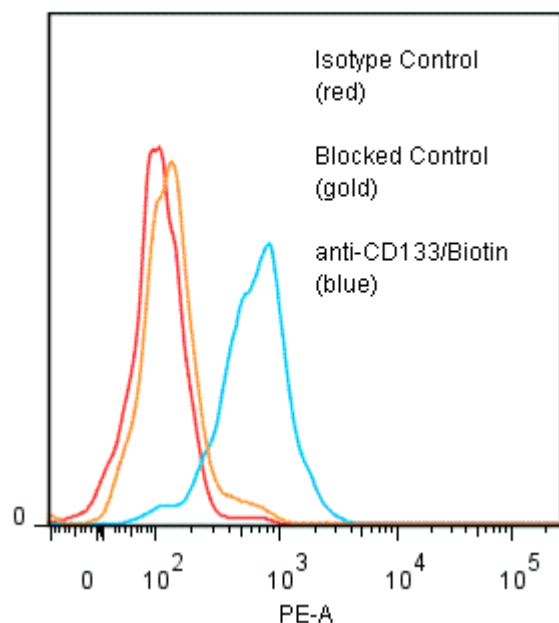
**STORAGE CONDITIONS:** Store at 2 - 5°C. Freeze/thawing not recommended.

**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% NaN<sub>3</sub> (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 10<sup>5</sup> 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 log<sub>10</sub>** 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-CD133/Biotin  
+SA/PE to human Y-79 cells**

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