

PERFORMANCE DATA SHEET

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Monoclonal anti-human CD133(AC133)***mAb name/Clone:** ANC9C5**Isotype:** Mouse IgG1k**Immunogen:** WERI-Rb-1 human retinoblastoma cells**CATALOG#:** 363-020**QUANTITY:** 100 µg**CONCENTRATION:** 1.0 mg/ml

INFORMATION: Human CD133 is a 117kd 5 pentaspan transmembrane glycoprotein expressed by a subset of hematopoietic and other types of stem cells found in blood and a variety of 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. Antibody ANC9C5 has been used to image cancer stem cells in a colon carcinoma xenograft (4).

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. 4) Jin ZH, Fuiabayashi Y, et al. (2012) *Mol Imaging* 11: 445-50. PMID: 23084245.

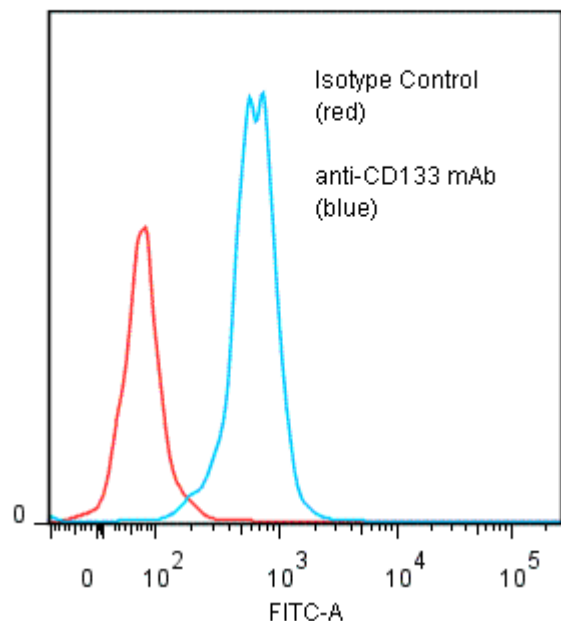
STORAGE CONDITIONS: Store at 2 - 5°C. Freeze/Thawing is not recommended.

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, 0.5 mg/ml Gentamicin Sulfate (as a preservative).

PRODUCTION: Antibody was Protein A purified from (low FBS containing) tissue culture supernatant. Purity was >95% Immunoglobulin by SDS-PAGE.

PERFORMANCE: Five x 10⁵ human Y-79 retinoblastoma cells were washed incubated 45 minutes on ice with 80 µl of anti-human CD133 antibody at 5 µg/ml. Cells were washed twice and incubated with Goat-anti-Mouse/FITC, after which they were washed twice, fixed and analyzed by FACS. Cells stained positive with a mean shift of 0.9 log₁₀ fluorescent units when compared to isotype control Mouse IgG1 antibody (catalog # 278-010).

**Binding of anti-CD133 mAb
+GAM/FITC to human Y-79 cells**

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