

Monoclonal anti-human CD133(AC133)*

mAb name/Clone: ANC9C5

Isotype: Mouse IgG1k

Immunogen: WERI-Rb-1 human retinoblastoma cells

CATALOG#: 363-820 (Preservative Free)

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. Open under aseptic conditions. Freeze/Thawing is not recommended.

PRODUCT STABILITY: Product should retain activity for at least 6 months after shipping date when stored as recommended. Ship Date:_____

BUFFER: 10 mM Sodium Phosphate pH 7.5, 20 mM Potassium Chloride, 130mM NaCl.

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

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** 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).

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

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

