

PERFORMANCE DATA SHEET
2845

Monoclonal anti-human CD133(AC133)/FITC*

mAb name/Clone: ANC9C5

Isotype: Mouse IgG1k

Immunogen: WERI-Rb-1 human retinoblastoma cells

CATALOG#: 363-040

QUANTITY: 120 tests

VOLUME IN VIAL: 0.2ml

WORKING DILUTION: 1:50 (or use 1.6µl of concentrated reagent per 5×10^5 -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. 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. 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, 100 mM Potassium Chloride, 150mM NaCl, 5% Glycerol, 0.2% BSA, 0.04% Na₃ (as a preservative).

PRODUCTION: Protein A purified antibody from tissue culture supernatant was reacted with FITC. Unconjugated FITC was separated from antibody/FITC conjugate by desalting column. The antibody/FITC conjugate is at 750µg/ml with a Fluorescein/IgG molar ratio of 7.8.

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 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/FITC at a dilution factor of 1:50 (15 µg/ml). Cells were washed three times, fixed and analyzed by FACS. Cells stained positive with a mean shift of 0.45 log₁₀ fluorescent units when compared to Mouse IgG1/FITC Isotype control (Cat #278-040). 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).

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

Binding of anti-CD133/FITC to cultured human Y-79 retinoblastoma

