

**PERFORMANCE DATA SHEET****Monoclonal anti-human CD133(AC133)/APC\*****mAb name/Clone:** ANC9C5**Isotype:** Mouse IgG1k**Immunogen:** WERI-Rb-1 human retinoblastoma cells**CATALOG#:** 363-060**QUANTITY:** 120 tests**VOLUME IN VIAL:** 0.2 ml**WORKING DILUTION:** 80ul @ 1:50 (or 1.6 ul of concentrated stock per 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.

**STORAGE CONDITIONS:** Store at 2 - 5°C. Do not freeze! Protect from light.

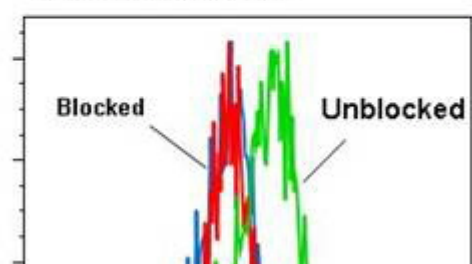
**PRODUCT STABILITY:** Product should retain activity for at least 12 months after shipping date when stored as recommended. Ship Date: \_\_\_\_\_

**BUFFER:** 50 mM Sodium Phosphate pH 7.5, 500 mM Potassium Chloride, 150mM NaCl, 15% Glycerol, 0.2% BSA, 0.04% NaN<sub>3</sub> (as a preservative).

**PRODUCTION:** Protein A purified antibody from tissue culture supernatant was conjugated to cross-linked Allophycocyanin through a sulfo-ester linkage. Unconjugated antibody was removed using size exclusion chromatography. Antibody conjugate is at approximately **0.25 mg/ml** with an A<sub>650</sub>/A<sub>280</sub> ratio of 1.5.

**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 10<sup>5</sup> human Y-79 tumor cells per tube were pre incubated with 20 ul of 250 ug/ml human Ig (to block non specific binding) after which they were incubated 45 minutes on ice with 80 ul of anti-CD133/APC at a dilution factor of **1:50** (5 ug/ml), after which they were washed three times,

**Binding of anti-CD133/APC to human Y-79 Retinoblastoma**

fixed and analyzed by FACS. Cells stained positive with a mean shift of **0.54** log<sub>10</sub> fluorescent units when compared to a Mouse IgG1/APC negative control (Catalog # 278-060) at a similar concentration. Binding was blocked when cells were pre incubated 10 minutes with 20 ul of 0.5 mg/ml of unconjugated anti-CD133 antibody (Catalog #363-020).

***\*This Product is intended for Laboratory Research use only.***

Allophycocyanin (APC) is covered under patents: U.S. 4,520,110; European 76,695 and Canadian 1,179,942.