

PERFORMANCE DATA SHEET

2410

Monoclonal anti-human CD155(PVR)/R-PE *

mAb name/Clone: ANC2B2

Isotype: Mouse IgG1κ

Immunogen: Recombinant human CD155

CATALOG#: 255-050

QUANTITY: 120 tests

VOLUME IN VIAL: 0.2 ml

WORKING DILUTION: 1:50 (or use 1.6µl of concentrated stock per 5 x 10⁵-cell test)

INFORMATION: Human CD155 (Polio Virus Receptor, PVR, Necl-5) is a 70 kd type I Ig superfamily molecule (1). It is involved in formation of intracellular junctions between epithelial cells. Its ligands include CD226(DNAM-1), and CD96(TACTILE). CD155 expression by tumor has been shown to be upregulated by Nitric Oxide(2). A soluble version of CD155 has been shown to exist (4). High CD155 expression has recently been exploited to use engineered poliovirus to treat glioblastoma. (3)

Antibody ANC2B2 binds to cell surface CD155 on U-937 cells, and binds to recombinant CD155 in EIA. Antibodies ANC2B2 and ANC6A3 (Catalog # 350-020) each bind to distinct epitopes of CD155 and are suitable as a matched pair for sandwich EIA.

References: 1) Medelsohn CL, Racaniello VR, et al. (1989) *Cell* **56**(5): 855-65. 2) C Fionda, M Cippitelli, et al. (2015) *BMC Cancer* **15**(1):17 PMID 25609078. 3) Gromeier M, Bigner D, et al. (2014) *Neuro-Oncology* **16**(supp3): iii41. 4) Baury B, MG Denis, et al. (2003) *Biochem Biophys Res Comm* **309**: 175-82.

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

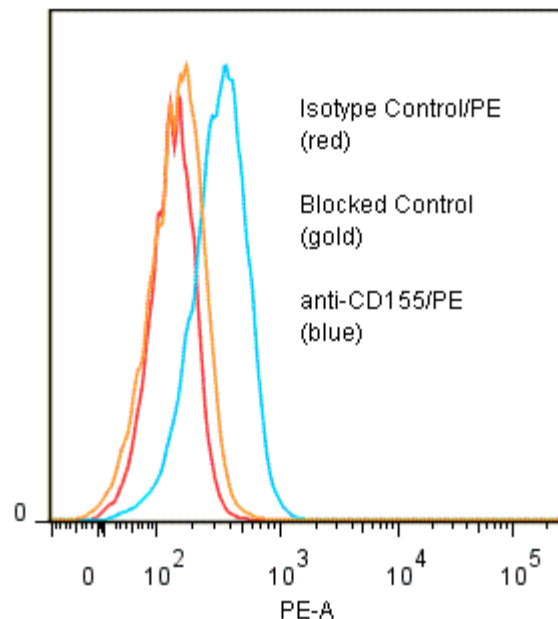
PRODUCT STABILITY: Product should retain activity for at least 12 months after shipping date when stored as recommended. Ship Date: _____

BUFFER: 50 mM Sodium Phosphate pH 7.5, 500 mM Potassium Chloride, 150mM NaCl, 15% Glycerol, 0.2% BSA, 0.04% NaN₃ (as a preservative).

PRODUCTION: Protein A purified antibody from tissue culture supernatant was conjugated to R-Phycoerythrin through a sulfo-ester linkage. Unconjugated antibody was removed using size exclusion chromatography. Antibody conjugate is at 1.0 mg/ml with an A₅₆₅/A₂₈₀ ratio of 3.04.

PERFORMANCE: Five x 10⁵ cultured human U-937 cells per tube were washed and pre incubated 5 minutes with 20 µl of 300 µg/ml human IgG (to reduce non specific binding) after which they were incubated 45 minutes on ice with 80 ul of anti-human CD155/R-PE at a dilution factor of 1:50 (20 µg/ml). Cells were washed three times, fixed and analyzed by FACS. Cells stained positive with a mean shift of 0.5 log₁₀ fluorescent units when compared to a Mouse IgG1/R-PE negative control (Catalog #278-050) at a similar concentration. Binding was blocked when cells were pre incubated 10 minutes with 20 µl of 0.5 mg/ml anti-CD3 antibody (Catalog #144-020).

Binding of anti-CD155/PE to human U-937 cells



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