

PERFORMANCE DATA SHEET

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Monoclonal anti-human CD47/R-PE***mAb name/Clone:** ANC2F6**Isotype:** Mouse IgG1**Immunogen:** Recombinant human CD47 (extracellular Ig domain)**CATALOG#:** 198-050**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 CD47 (IAP, Integrin Associated Protein) is a broadly expressed Ig superfamily glycoprotein of about 50kD with a long extracellular Ig like domain, 5 transmembrane domains and an alternatively spliced intracellular c-terminal domain. It interacts with its ligand SIRP alpha (CD172a, Signal Regulatory Protein) expressed mainly on myeloid cells serving as a negative immune regulator, inhibiting phagocytosis. The CD47-SIRPα axis is being investigated as possible anti-tumor immune intervention point. Clone ANC2F6 binds to an epitope within the extracellular Ig-like domain of human CD47.

References: 1) Xiaojuan Liu, Yang-xin Fu, et al. (2017) *J Hematol Oncol* 10:12. doi:10.1186/s13045-016-0381-z PMID: 28077173.

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 500 µg/ml with an A₅₆₅/A₂₈₀ ratio of 2.8.

PERFORMANCE: Five x 10⁵ cultured CEM cells were washed and incubated 45 minutes on ice with 80 µl of anti-CD47/R-PE at a dilution factor of 1:50 (10 µg/ml). Cells were washed three times, fixed and analyzed by FACS. Cells stained positive with a mean shift of 1.61 log₁₀ fluorescent units when compared to a Mouse IgG1/R-PE negative control (Catalog #278-050). Binding was blocked when cells were pre incubated 10 minutes with 20 µl of 0.5 mg/ml anti-CD47 antibody (Catalog #198-020).

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

Binding of anti-CD47/PE to human CEM cells

