

PERFORMANCE DATA SHEET

2639

Monoclonal anti-human CD47 *

mAb name/Clone: ANC2F6

Isotype: Mouse IgG1

Immunogen: Recombinant human CD47 (extracellular Ig domain)

CATALOG#: 198-820 (Preservative-free)

QUANTITY: 100 µg

CONCENTRATION: 1.0 mg/ml

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

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

BUFFER: mM Sodium Phosphate pH 7.5, 100 mM Potassium Chloride, 150mM NaCl.

PRODUCTION: Antibody was Protein A purified from (low FBS containing) tissue culture supernatant. Purity was >95% Immunoglobulin by SDS-PAGE and contains less than 1% Bovine Immunoglobulin. Product was 0.2 µm filtered and vialled under aseptic conditions.

PERFORMANCE: Five x 10⁵ cultured human CEM cells were washed and incubated 45 minutes on ice with 80 µl of anti-CD47 antibody at 10 µg/ml. Cells were washed twice and incubated with 2° reagent Goat anti-Mouse IgG/FITC (Catalog #232-011), after which they were washed three times, fixed and analyzed by FACS. Cells stained positive with a mean shift of 1.78 log₁₀ fluorescent units when compared to a Mouse IgG1 negative control (Catalog # 278-010).

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

Binding of anti-CD47 antibody +GAM/FITC to human CEM cells

