## PERFORMANCE DATA SHEET

2732

## Monoclonal anti-human CD47/FITC\*



mAb name/Clone: ANC2F6

Isotype: Mouse IgG1

Immunogen: Recombinant human CD47 (extracellular Ig domain)

CATALOG#: 198-040
QUANTITY: 120 tests

VOLUME IN VIAL: 0.2 ml
WORKING DILUTION: 1:50 (or use 1.6µl of concentrated stock per 5 x 10<sup>5</sup>-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 cterminal domain. It interacts with it ligand SIRP alpha (CD172a, Signal Regulatory Protein) expressed mainly on myeloid cells serving as a negative immune regulator, inhibiting phagocytosis. The CD47-SIRPa 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<sup>o</sup>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:\_\_\_\_\_

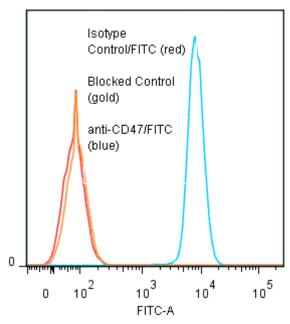
**BUFFER:** 50 mM Sodium Phosphate pH 7.5, 100 mM Potassium Chloride, 150mM NaCl, 5% Glycerol, 0.2% BSA, 0.04% NaN<sub>3</sub> (as a preservative).

**PRODUCTION:** Antibody from (low FBS containing) tissue culture supernatant was Protein A purified to 95% Immunoglobulin by SDS-PAGE, and reacted with FITC. Unconjugated FITC was removed from conjugate using a desalting column. Antibody conjugate is at **0.5 mg/ml** with a

fluorescein: antibody molar ratio of 7.1.

**PERFORMANCE:** Five x  $10^5$  cultured **CEM** cells were washed and incubated 45 minutes on ice with 80  $\mu$ l of anti-CD47/FITC at a dilution factor of **1:50** (10  $\mu$ g/ml). Cells were washed three times, fixed and analyzed by FACS. Cells stained positive with a mean shift of **2.04**  $\log_{10}$  fluorescent units when compared to a Mouse IgG1/FITC isotype control (Catalog #278-040). Binding was blocked when cells were pre incubated 10 minutes with 20  $\mu$ l of 0.5 mg/ml anti-CD47 antibody (Catalog #198-020).

## Binding of anti-CD47/FITC to human CEM cells



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<sup>\*</sup> Research Use Only. Not for use in Diagnostic procedures.