

Monoclonal anti-human CD47/Biotin*

mAb name/Clone: ANC2F6

Isotype: Mouse IgG1

Immunogen: Recombinant human CD47 (extracellular Ig domain).

CATALOG#: 198-030

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-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. Freeze/thawing not recommended.

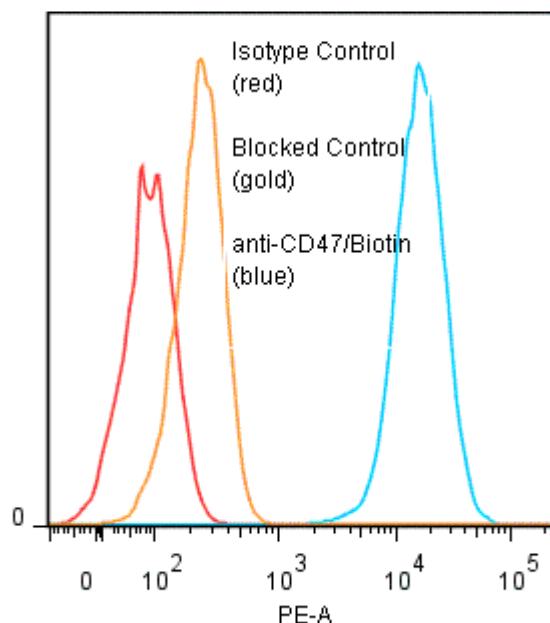
PRODUCT STABILITY: Product should retain activity for at least 12 months after shipping date when stored as recommended. Ship Date: _____

BUFFER: 50 mM Sodium Phosphate pH 7.5, 100 mM Potassium Chloride, 150mM NaCl, 5% Glycerol, 0.2% BSA, 0.04% NaN₃ (as a preservative).

PRODUCTION: Antibody from (low FBS containing) tissue culture supernatant was Protein A purified to >95% mouse immunoglobulin by SDS-PAGE (<1% bovine immunoglobulin), and reacted with NHS-Biotin. Unconjugated Biotin was removed from conjugate using a desalting column.

PERFORMANCE: Five x 10⁵ human CEM cells were washed and incubated 45 minutes on ice with 80 µl of anti-CD47/Biotin at a concentration of **10 µg/ml**. Cells were washed twice and incubated with 2^o reagent Streptavidin/R-Phycoerythrin (Catalog #253-050), after which they were washed three times, fixed and analyzed by FACS. Cells stained positive with a mean shift of **2.28** log₁₀ fluorescent units when compared to a Mouse IgG1/Biotin negative control (Catalog #278-030). Binding was blocked when cells were pre incubated 10 minutes with anti-CD47 antibody (Catalog #198-020).

Binding of anti-CD47/Biotin +SA/PE to human CEM cells



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