



PERFORMANCE DATA SHEET
1904

Monoclonal anti-human CD270(HVEM)/Biotin*

mAb name/Clone: ANC3B7

Isotype: Mouse IgG2ak

Immunogen: Recombinant human CD270-muIg fusion protein

CATALOG#: 270-030

QUANTITY: 100 µg

CONCENTRATION: 1.0 mg/ml

INFORMTION: Human CD270 (Herpes Virus Entry Mediator, TNFRSF14, ATAR, LIGHTR, TR2) is a 36kd type I membrane protein that has been found on a broad range of lymphoid tissues. Its ligands include the TNF Ligand family members Ltα and LIGHT, and the CD28/Ig Superfamily member BTLA(2). Antibody ANC3B7 is reactive with recombinant CD270 in EIA, and binds to CD270 present on human U-937 cell surface in Flow Cytometry.

REFERENCES: (1) Hsu H, et al. (1997) *J Biol Chem* **272**:13471. (2) Gonzalez LC, et al. (2005) *PNAS* **102**(4): 1116-1121.

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 cultured human **U-937** cells per tube were washed and pre incubated 5 minutes with 20 µl human IgG at 250 µg/ml (to block non specific binding) after which they were incubated 45 minutes on ice with 80 µl of product at a concentration of **5 µg/ml**. Cells were washed twice and incubated with 2^o reagent Streptavidin/R-PE (Catalog #253-050), after which they were washed three times, fixed and analyzed by FACS. Cells stained positive with a mean shift of **0.8** log₁₀ fluorescent units when compared to a Mouse IgG2a/Biotin negative control (Catalog #281-030) at a similar concentration. Binding was blocked when cells were pre incubated 10 minutes with 20 µl of 0.5 mg/ml anti-CD270 antibody (Catalog #270-020).

**This Product is intended for Laboratory Research use only.*