

**PERFORMANCE DATA SHEET**  
2024



**Monoclonal anti-human CD270(HVEM)/FITC\***

**mAb name/Clone:** ANC3B7

**Isotype:** Mouse IgG2ak

**Immunogen:** Recombinant human CD270-muIg fusion protein

**CATALOG#:** 270-040

**QUANTITY:** 120 tests

**VOLUME IN VIAL:** 0.2ml

**WORKING DILUTION:** (or use 1.6µl of concentrated stock per  $5 \times 10^5$ -cell test)

**INFORMATION:** 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 Lt $\alpha$  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 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:** Protein A purified antibody from tissue culture supernatant was reacted with FITC. Unconjugated FITC was separated from antibody/FITC conjugate by desalting column. The antibody/FITC conjugate is at approximately **1.0 mg/ml** with a Fluorescein/IgG molar ratio of 10.4.

**PERFORMANCE:** Five  $\times 10^5$  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 **1:50** dilution (20 µg/ml). Cells were washed three times and analyzed by FACS. Cells stained positive with a mean shift of **0.55 log<sub>10</sub>** fluorescent units when compared to a Mouse IgG2a/FITC negative control (Catalog #281-040). Binding was blocked when the reagent was pre incubated with a 5-fold excess of recombinant CD270-muIg (cat #531-020).

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

**Binding of anti-CD270/FITC to human U-937 cells**

