

# PERFORMANCE DATA SHEET

1945

## Monoclonal anti-human CD270(HVEM)/R-PE \*

**mAb name/Clone:** ANC3B7

**Isotype:** Mouse IgG2ak

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

**CATALOG#:** 270-050

**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 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. Do not freeze! 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, 500 mM Potassium Chloride, 150mM NaCl, 15% Glycerol, 0.2% BSA, 0.04% NaN<sub>3</sub> (as a preservative).

**PRODUCTION:** Protein A purified antibody from tissue culture supernatant was conjugated to R-Phycoerythrin through a sulfo-ester linkage. Unconjugated antibody was removed using size exclusion chromatography. Antibody conjugate is at **0.5 mg/ml** with an A<sub>565</sub>/A<sub>280</sub> ratio of 2.71.

**PERFORMANCE:** Five x 10<sup>5</sup> cultured human U-937 cells per tube were washed and pre incubated with 20µl of 300µg/ml human IgG (to reduce non specific binding) after which they were incubated 45 minutes on ice with 80 µl of anti-CD270/R-PE at a **1:50** dilution factor (10 µg/ml). Cells were washed three times, fixed and analyzed by FACS. Cells stained positive with a mean shift of **0.64 log<sub>10</sub>** fluorescent units when compared to a Mouse IgG2a/R-PE negative control (Catalog #281-050). Binding was blocked when cells were pre incubated 10 minutes with 20 µl of 0.5 mg/ml anti-CD270 antibody (Catalog #270-020).

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

**Binding of anti-CD270(HVEM)/PE to human U-937 cells**

