## PERFORMANCE DATA SHEET

1951

## Ancell

## Monoclonal anti-human LTβR/R-PE\*

mAb name/Clone: ANCLTR2/9E2

*Isotype:* Mouse IgG1k

*Immunogen:* Recombinant LTβR-muIg

HEV(2), Dendritic cells(3), and Mast cells(4).

CATALOG#: 267-050 QUANTITY: 120 tests

**VOLUME IN VIAL: 0.2 ml** 

**INFORMATION:** Human Lymphotoxin beta receptor (LT $\beta$ R, TNFRSF3) is a member of the TNF receptor superfamily with similarilty to CD120a(TNFR1) and CD120b(TNFR2). It is a expressed mainly on non lymphoid tissues(1) and appears to have an important role in secondary lymphoid organ development(5). Suppression of LT $\beta$ R signaling can alleviate autoimmunity(2) or exasperate mycobacterial infection(6). Its ligands include Lt $\alpha\beta_2$  and LIGHT. In mice, LT $\beta$ R signaling is important for development and function of

Antibody ANCLTR2 binds to human LT $\beta$ R present on U-937 cell surface, and to recombinant LT $\beta$ R-muIg in EIA.

**REFERENCES:** 1) T W Mak, M E Saunders eds. *The Immune Response* 2006 Elsevier Academic Press p 499.

2) J L Browning, R.A. Fava, et al. *Immunity* (2005) 23(5): 539-50. 3)Y Wang, Y Fu, et al. *J Immunol* (2005) 175: 6997-7002. 4) P Stopfer, T Hehlgans, et al. *J Immunol* (2004) 172: 7459-7465. 5) Gommermann J, JL Browning, et al, *Nat Rev Immunol* (2003) 3:642-655. 6) Spahn TW, T Kucharzik, et al. *Infection and Immunity* (2005) 73(11): 7077-7088.

STORAGE CONDITIONS: Store at 2 - 5°C. Do not freeze! Protect from light.

**WORKING DILUTION: 1:50** (or use 1.6 $\mu$ l of concentrated stock per 5 x 10<sup>5</sup>-cell test)

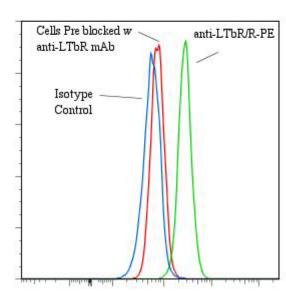
**PRODUCT STABILITY:** Product should retain activity for at least 12 months after shipping date when stored as recommended. Ship Date:\_\_\_\_\_

**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  $250 \, \mu g/ml$  with an  $A_{565}/A_{280}$  ratio of 2.88.

**PERFORMANCE:** Five x  $10^5$  cultured human **U-937** cells were pre incubated 5 minutes with 20  $\mu$ l of 250  $\mu$ g/ml human Ig (to block non specific binding) after which they were incubated 45 minutes on ice with 80  $\mu$ l of product at a dilution factor of **1:50** (5 $\mu$ g/ml). Cells were washed three times, fixed and analyzed by FACS. Cells stained positive with a mean shift of **0.6** log<sub>10</sub> fluorescent units when compared to a Mouse IgG1/R-PE negative control (Catalog #278-050). Binding was blocked when cells were pre incubated with 20  $\mu$ l of 0.5 mg/ml anti-LTbR antibody (Catalog #267-020).

## Binding of anti-LTbR/R-PE to human U-937 cells



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