## PERFORMANCE DATA SHEET

2415

## Monoclonal anti-human LTβR/FITC\*



mAb name/Clone: ANCLTR2/9E2

*Isotype:* Mouse IgG1k

*Immunogen:* Recombinant LTβR-muIg

CATALOG#: 267-040 QUANTITY: 120 tests

**VOLUME IN VIAL: 0.2ml** 

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

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

Antibody ANCLTR2 binds to human LTβR present on U-937 cell surface, and to recombinant LTβR-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. Freeze/Thawing is not recommended. Protect from light.

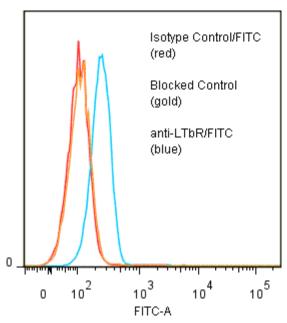
**PRODUCT STABILITY:** Product should retain activity for at least 12 months after shipping date when stored as recommended. Ship Date:\_\_\_\_\_\_

**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 **0.5 mg/ml** with a Fluorescein/IgG molar ratio of **10.6**.

**PERFORMANCE:** Five x  $10^5$  cultured human **U-937** cells were pre incubated with 20 µl of  $150\mu g/ml$  human IgG (to block non specific binding), after which they were incubated 45 minutes on ice with 80 µl of product at a **1:50** dilution ( $10 \mu g/ml$ ). They were then washed three times, fixed and analyzed by FACS. Cells stained positive with a mean shift of **0.71**  $\log_{10}$  fluorescent units when compared to a Mouse IgG1/FITC negative control (Catalog #278-040). Binding was blocked when cells were pre incubated with 20ul of 0.5mg/ml anti-LTbR mAb (Catalog #267-020).

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



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