

**PERFORMANCE DATA SHEET**  
2415

**Monoclonal anti-human LT $\beta$ R/FITC\***

**mAb name/Clone:** ANCLTR2/9E2

**Isotype:** Mouse IgG1k

**Immunogen:** Recombinant LT $\beta$ R-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 similarity to CD120a(TNFR1) and CD120b(TNFR2). It is 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 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 Hehlhans, 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<sup>5</sup> cultured human **U-937** cells were pre incubated with 20  $\mu$ l of 150 $\mu$ g/ml human IgG (to block non specific binding), after which they were incubated 45 minutes on ice with 80  $\mu$ l 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<sub>10</sub>** 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-LT $\beta$ R mAb (Catalog #267-020).

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

**Binding of anti-LT $\beta$ R/FITC to human U-937 cells**

