## PERFORMANCE DATA SHEET 3329 Monoclonal anti-human LTβR (Lymphotoxin beta receptor)\*



*mAb name/Clone:* ANCLTR2/9E2 *Isotype:* Mouse IgG1κ *Immunogen:* Recombinant LTβR-muIg

## CATALOG#: 267-020 QUANTITY: 100 µg

## **CONCENTRATION: 1.0 mg/ml**

**INFORMATION:** Human Lymphotoxin beta receptor (LT $\beta$ R, TNFRSF3) is a member of the TNF receptor superfamily with similarily 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 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<sup>o</sup>C. Freeze/Thawing is not recommended.

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

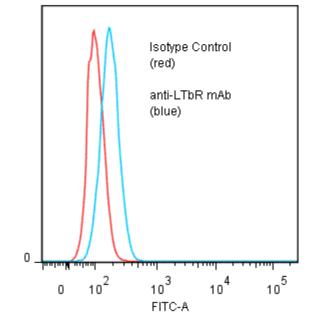
**BUFFER:** 50 mM Sodium Phosphate pH 7.5, 100 mM Potassium Chloride, 150mM NaCl, 0.5 mg/ml Gentamicin Sulfate (as a preservative).

**PRODUCTION:** Antibody was Protein A purified from (low FBS containing) tissue culture supernatant. Purity was >95% Immunoglobulin by SDS-PAGE with less than 1% Bovine Immunoglobulin.

**PERFORMANCE:** Five x  $10^5$  cultured human **U-937** cells were pre incubated 5 minutes with 20 µl of 250 µg/ml human Ig (to block non specific binding) after which they were incubated 45 minutes on ice with 80 µl of anti-LTβR antibody at **5 µg/ml**. Cells were washed twice and incubated with  $2^0$  reagent Goat anti-Mouse IgG/FITC (Catalog #232-011), after which they were washed three times, fixed and analyzed by FACS. Cells stained positive with a mean shift of **0.35** log<sub>10</sub> fluorescent units when compared to a Mouse IgG1 negative control (Catalog #278-010).

\* Research use only. Not for use in Diagnostic procedures.

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



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