

## PERFORMANCE DATA SHEET

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# *Monoclonal anti-human LT $\beta$ R (Lymphotoxin beta receptor)\**

*mAb name/Clone:* ANCLTR2/9E2

*Isotype:* Mouse IgG1 $\kappa$

*Immunogen:* Recombinant LT $\beta$ R-muIg

**CATALOG#:** 267-820 (Preservative-free)

**QUANTITY:** 100  $\mu$ g

**CONCENTRATION:** 1.0 mg/ml

**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 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. *Open under aseptic conditions.*

**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.

**PRODUCTION:** Antibody was Protein A purified from (low FBS containing) tissue culture supernatant. Purity was >95% Immunoglobulin by SDS-PAGE and contains less than 1% Bovine Immunoglobulin. Product was 0.2 $\mu$  sterile filtered and vialled under aseptic conditions.

**PERFORMANCE:** Five x 10<sup>5</sup> 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 anti-LT $\beta$ R antibody at **5  $\mu$ g/ml**. Cells were washed twice and incubated with 2<sup>o</sup> 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 **0.36** log<sub>10</sub> fluorescent units when compared to a Mouse IgG1 negative control (Catalog #278-010) at a similar concentration. Binding was blocked when reagent was pre incubated with an excess of recombinant human LT $\beta$ R-muIg (cat #536-020).

*\*This Product is intended for Laboratory Research use only.*

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