

PERFORMANCE DATA SHEET

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Monoclonal anti-human LT β R/R-PE*

mAb name/Clone: ANCLTR2/9E2

Isotype: Mouse IgG1k

Immunogen: Recombinant LT β R-muIg

CATALOG#: 267-050

QUANTITY: 120 tests

VOLUME IN VIAL: 0.2 ml

WORKING DILUTION: 1:50 (or use 1.6 μ l of concentrated stock per 5 x 10⁵-cell test)

INFORMATION: Human Lymphotoxin beta receptor (LT β 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 β R signaling can alleviate autoimmunity(2) or exasperate mycobacterial infection(6). Its ligands include Lt $\alpha\beta_2$ and LIGHT. In mice, LT β R signaling is important for development and function of HEV(2), Dendritic cells(3), and Mast cells(4).

Antibody ANCLTR2 binds to human LT β R present on U-937 cell surface, and to recombinant LT β 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. **Do not freeze! 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, 500 mM Potassium Chloride, 150mM NaCl, 15% Glycerol, 0.2% BSA, 0.04% NaN₃ (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 μ g/ml with an A₅₆₅/A₂₈₀ ratio of 2.88.

PERFORMANCE: Five x 10⁵ cultured human U-937 cells were pre incubated 5 minutes with 20 μ l of 250 μ g/ml human Ig (to block non specific binding) after which they were incubated 45 minutes on ice with 80 μ l of product at a dilution factor of 1:50 (5 μ g/ml). Cells were washed three times, fixed and analyzed by FACS. Cells stained positive with a mean shift of 0.6 log₁₀ 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 μ l of 0.5 mg/ml anti-LT β R antibody (Catalog #267-020).

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

Binding of anti-LT β R/R-PE to human U-937 cells

