

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 1.6μl of concentrated stock per 5 x 10⁵-cell test)

INFORMATION: Human Lymphotoxin beta receptor (LTβR, 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 LTβR signaling can alleviate autoimmunity(2) or exasperate mycobacterial infection(6). Its ligands include Ltαβ₂ and LIGHT. In mice, LTβR 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 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% NaN₃ (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 10⁵ cultured human U-937 cells were pre incubated with 20 μl of 150μg/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 μg/ml). They were then washed three times, fixed and analyzed by FACS. Cells stained positive with a mean shift of **0.71 log₁₀** fluorescent units when compared to a Mouse IgG1/FITC negative control (Catalog #278-040) at a similar concentration. Binding was blocked when cells were pre incubated with 20ul of 0.5mg/ml anti-LTβR mAb (Catalog #267-020).

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

Binding of anti-LTβR/FITC to human U-937 cells

