PERFORMANCE DATA SHEET
1818

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 (LTβR, TNFRSF3) is a member of the TNF receptor superfamily with similarilty 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 LTβR signaling can alleviate autoimmunity(2) or exasperate mycobacterial infection(6). Its ligands include $Lt\alpha\beta_2$ 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 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^{o}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^{o} 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** $\log_{10}$ fluorescent units when compared to a Mouse IgG1 negative control (Catalog #278-010). Binding was blocked when reagent was pre incubated with an excess of recombinant human LTβR-muIg (cat #536-020).

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

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