PERFORMANCE DATA SHEET

3012

Ancell

anti-human LTβR (Lymphotoxin beta receptor)/Biotin*

mAb name/Clone: ANCLTR2/9E2

Isotype: Mouse IgG1k

Immunogen: Recombinant human LTβR

CATALOG#: 267-030 QUANTITY: 100 μg

CONCENTRATION: 1.0 mg/ml

INFORMATION: Human Lymphotoxin beta receptor (LT β R, 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 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 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^oC*. Freeze/thawing not recommended.

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

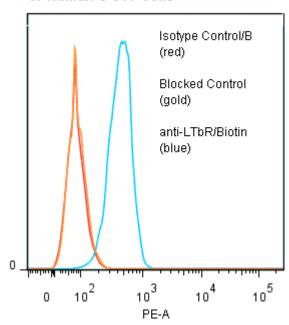
BUFFER: 50 mM Sodium Phosphate pH 7.5, 100 mM Potassium Chloride, 150mM NaCl, 5% Glycerol, 0.2% BSA, 0.04% NaN₃ (as a preservative).

PRODUCTION: Antibody from (low FBS containing) tissue culture supernatant was Protein A purified to >95% mouse immunoglobulin by SDS-PAGE (<1% bovine immunoglobulin), and reacted with NHS-Biotin. Unconjugated Biotin was removed from conjugate using a desalting column.

PERFORMANCE: Five x 10^5 cultured human **U-937** cells were washed and pre incubated 5 minutes with 20 μl of 250 μg/ml human IgG (to block non specific binding) after which they were incubated 45 minutes on ice with 80 μl of anti-LTβR/Biotin at **10 μg/ml**. Cells were washed twice and incubated with 2^0 reagent Streptavidin/R-PE (Catalog #253-050) after which they were washed three times, fixed and analyzed by FACS. Cells stained positive with a mean shift of **0.76** log₁₀ fluorescent units when compared to a Mouse IgG1/Biotin negative control (Catalog #278-030). Binding was blocked when cells were pre blocked with 20μl of 0.5 mg/ml unlabeled anti-LTβR antibody (Catalog #267-020).

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

Binding of anti-LTbR/Biotin +SA/PE to human U-937 cells



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