

## Human LT $\beta$ R-muIg/Biotin\*

CATALOG#: 536-030

QUANTITY: 25  $\mu$ g

CONCENTRATION: 0.5 mg/ml

**Molecular Structure:** A soluble fusion protein consisting of 10 residual amino acids from murine CD8 alpha leader sequence (KPQAPELRGS), followed by the mature extracellular (192aa) domain of human LT $\beta$ R (SQPQAVP....PLEPLPP) fused to (233aa) murine IgG2a Fc (EPRGPTI....FSRTPGK). Predicted non glycosylated molecular weight of 48.9 kd.

**Transfectant Cell Line:** CHO

**INFORMATION:** Human Lymphotoxin beta receptor (LT $\beta$ R, TNFSF3) 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).

Recombinant LT $\beta$ R-muIg fusion protein binds to recombinant human LIGHT in EIA

**STORAGE CONDITIONS:** Store at 2 - 5°C. Freeze/Thawing is not recommended.

**PRODUCT STABILITY:** Product should retain activity for at least 6 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% NaN<sub>3</sub> (as a preservative).

**PRODUCTION:** Fusion protein from (low FBS containing) tissue culture supernatant of transfectants was purified using affinity and size exclusion chromatography), and reacted with NHS-Biotin. Unconjugated Biotin was removed from conjugate by desalting column.

**PERFORMANCE:** LT $\beta$ R-muIg identity was confirmed by n-terminal sequencing (KPQAP) and amino acid analysis.

LT $\beta$ R-muIg/Biotin (at 0.1 - 1  $\mu$ g/ml) bound to recombinant LIGHT-coated plate in EIA using Streptavidin/HRP as a detector.

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

**Binding of LT $\beta$ R-muIg/Biotin +SA/HRP to Immobilized recombinant huLIGHT**

