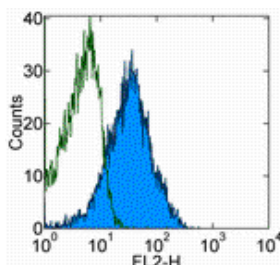


Anti-Mouse Lymphotoxin beta Receptor Functional Grade Purified

Catalog Number: 16-5671

Also Known As: LTβR, LTβeta R

RUO: For Research Use Only. Not for use in diagnostic procedures.



Staining of NIH/3T3 cell line with 0.25 ug of Rat IgG1 Isotype Control Functional Grade Purified (cat. 16-4301) (open histogram) or 0.25 ug of Anti-Mouse Lymphotoxin beta Receptor Functional Grade Purified (filled histogram) followed by Anti-Rat IgG Biotin (cat. 13-4813) and Streptavidin PE (cat. 12-4317). Total viable cells were used for analysis.

Product Information

Contents: Anti-Mouse Lymphotoxin beta Receptor Functional Grade Purified

REF **Catalog Number:** 16-5671

Clone: eBio3C8 (3C8)

Concentration: 1 mg/mL

Host/Isotype: Rat IgG1, kappa


Handling Conditions: Use in sterile environment.

Endotoxin Level: Less than 0.001 ng/ug antibody, as determined by the LAL assay.

Formulation: aqueous buffer, no sodium azide

 **Temperature Limitation:** Store at 2-8°C.

 **Batch Code:** Refer to Vial

 **Use By:** Refer to Vial

Description

The antibody reacts with mouse lymphotoxin-beta receptor (LTBR). Northern blot analysis of tissues from adult mice showed that expression levels of LTBR mRNA were strong in lung, liver, and kidney, moderate in heart and testes, but weak in brain, thymus, spleen, and lymph nodes. The tumor necrosis factor receptor-related protein is the human receptor for the heterotrimer of lymphotoxin alpha and lymphotoxin beta. This LT alpha/LTbeta heterotrimer (LT alpha 1/beta 2) is assumed to take part in immunologic reactions by cell-cell contact, but does not bind to either TNFR1 (CD120 alpha) or TNFR2 (CD120 beta). LTBR is expressed by day 7 embryos, so it has been speculated that the LT alpha/LT beta receptor system may also have some function in early embryogenesis.

Applications Reported

This eBio3C8 (3C8) antibody has been reported for use in flow cytometric analysis and to have agonistic activity (via activation of NKκB).

Applications Tested

This eBio3C8 (3C8) antibody has been tested by flow cytometric analysis of NIH/3T3 cells. This can be used at less than or equal to 0.5 μg per test. A test is defined as the amount (μg) of antibody that will stain a cell sample in a final volume of 100 μL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

References

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Chin RK, Lo JC, Kim O, Blink SE, Christiansen PA, Peterson P, Wang Y, Ware C, Fu YX. Lymphotoxin pathway directs thymic Aire expression. *Nat Immunol*. 2003 Nov;4(11):1121-7. Epub 2003 Sep 28.(3C8, FA, PubMed)

Nakamura, T., et al. 1995. The murine lymphotoxin-beta receptor cDNA: isolation by the signal sequence trap and chromosomal mapping. *Genomics* 30: 312-319.

Crowe, P., et al. 1996. A lymphotoxin-beta-specific receptor. *Science* 264: 707-710.

Dejardin E, Droin NM, Delhase M, Haas E, Cao Y, Makris C, Li ZW, Karin M, Ware CF, Green DR. The lymphotoxin-beta receptor induces different patterns of gene expression via two NF-κappaB pathways. *Immunity*. 2002 Oct;17(4):525-35.

Related Products

11-4317 Streptavidin FITC

11-4811 Anti-Rat IgG FITC

12-4317 Streptavidin PE

13-4813 Anti-Rat IgG Biotin (Polyclonal)

16-4301 Rat IgG1 K Isotype Control Functional Grade Purified

17-4317 Streptavidin APC

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