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Product Information

Contents: Phycoerythrin (PE) anti-mouse Lymphotoxin-beta

Receptor (LTbR)

Catalog Number: 12-5671 Concentration: 0.2 mg/mL

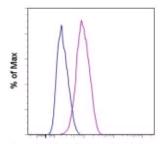
Formulation: aqueous buffer, 0.09% sodium azide, contains

stabilizer if necessary

Storage Conditions: Store at 2-8°C.

DO NOT FREEZE.

LIGHT-SENSITIVE MATERIAL. Clone: eBio3C8 (3C8) Host/Isotype: Rat IgG1, κ



Lymphotoxin-beta Receptor PE
Staining of NIH/3T3 cell line with 0.125 μg of PE Rat IgG1 Iso Cntrl
(cat. 12-4301) (blue histogram) or 0.125 μg of PE anti-mouse
Lymphotoxin-beta Receptor (LTbR) (purple histogram). Total viable
cells were used for analysis.

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/LT-beta heterotrimer (LT-α1β2) is assumed to take part in immunologic reactions by cell-cell contact, but does not bind to either TNFR1 (CD120α) or TNFR2 (CD120β). 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

For research use only, not for diagnostic or therapeutic use. This eBio3C8 (3C8) antibody has been reported for use in flow cytometric analysis.

Applications Tested

This eBio3C8 (3C8) antibody has been tested by flow cytometric analysis of the NIH/3T3 cell line. This can be used at less than or equal to 0.25 μ g per test. A test is defined as the amount (μ g) of antibody that will stain a cell sample in a final volume of 100 μ L. 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-kappaB pathways. Immunity. 2002 Oct;17(4):525-35.

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