

Anti-LTBR Antibody Picoband™

Catalog Number: A00942-2

About LTBR

LTBR(Lymphotoxin B Receptor), also called TNFCR or LT-BETA-R, is a receptor for lymphotoxin which in humans is encoded by the LTBR gene. By linkage analysis with recombinant inbred mouse strains, Nakamura et al.(1995) demonstrated that the Tnfr locus is close to the Tnfr1 gene on mouse chromosome 6. Presumably, the human homolog is located on 12p13. Silva-Santos et al.(2005) reported that double-positive T cells regulate the differentiation of early thymocyte progenitors and gamma-delta cells by a mechanism dependent on the transcription factor ROR-gamma-t and the lymphotoxin-beta receptor. Lo et al.(2007) identified lymphotoxin and LIGHT(TNFSF14), tumor necrosis factor cytokine family members that are primarily expressed on lymphocytes, as critical regulators of key enzymes that control lipid metabolism.

Overview

Product Name	Anti-LTBR Antibody Picoband™
Reactive Species	Human
Description	Boster Bio Anti-LTBR Antibody Picoband™ catalog # A00942-2. Tested in WB, ELISA applications. This antibody reacts with Human.
Application	ELISA, WB
Clonality	Polyclonal
Formulation	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Storage Instructions	At -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freezing and thawing.
Host	Rabbit
Uniprot ID	P36941

Technical Details

Immunogen	E.coli-derived human LTBR recombinant protein (Position: Q31-Q404). Human LTBR shares 67% amino acid (aa) sequence identity with mouse LTBR.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 µg/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Dilute the sample so that the expected range of concentrations fall within the detection range of this

kit.

If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.

Some PubMed article(s) citing the expression level of this target are as follows:

Boster Bio's internal QC testing used:

Western blot, 0.25-0.5 µg/ml, Human

ELISA, 0.1-0.5 µg/ml, Human

Anti-LTBR Antibody Picoband™ (A00942-2) Images

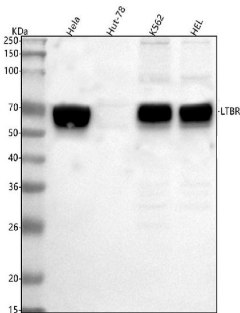


Figure 1. Western blot analysis of LTBR using anti-LTBR antibody (A00942-2).

Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: human Hela whole cell lysates,

Lane 2: human Hut-78 whole cell lysates,

Lane 3: human K562 whole cell lysates,

Lane 4: human HEL whole cell lysates.

After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes.

Blocked the membrane with 5% non-fat milk/TBS for 1.5

hour at RT. The membrane was incubated with rabbit anti-

LTBR antigen affinity purified polyclonal antibody (Catalog #

A00942-2) at 0.5 ug/mL overnight at 4°C, then washed with

TBS-0.1%Tween 3 times with 5 minutes each and probed

with a goat anti-rabbit IgG-HRP secondary antibody at a

dilution of 1:5000 for 1.5 hour at RT. The signal is developed

using an Enhanced Chemiluminescent detection (ECL) kit

(Catalog # EK1002) with Tanon 5200 system. A specific

band was detected for LTBR at approximately 55-60 kDa.

The expected band size for LTBR is at 47 kDa.

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