

Anti-NTAL/LAT2 Antibody Picoband™

Catalog Number: A02496-1

About LAT2

Linker for activation of T-cells family member 2, also known as WBSCR5 or NTAL is a protein that in humans is encoded by the LAT2 gene. It is mapped to 7q11.23. It has been found that NTAL associated with GRB2, SOS1 and GAB1 after B-cell receptor activation. Phosphorylation of NTAL was strongest in the presence of LCK, ZAP70, SYK, or LYNLAT2. NTAL is a structural and possibly a functional homolog of LAT in non-T cells. It also has been found that BLNK and LAT2 in B cells are a functionally equivalent pair to SLP76 and LAT in T cells. This gene consists of at least 14 exons, and its alternative splicing generates 3 transcript variants, all encoding the same protein.

Overview

Product Name	Anti-NTAL/LAT2 Antibody Picoband™
Reactive Species	Human
Description	Boster Bio Anti-NTAL/LAT2 Antibody Picoband™ catalog # A02496-1. Tested in ELISA, WB 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 Na ₂ HPO ₄ .
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	Q9GZY6

Technical Details

Immunogen	E.coli-derived human NTAL/LAT2 recombinant protein (Position: R46-S217).
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.
Cross Reactivity	No cross-reactivity with other proteins.
Isotype	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/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 ug/ml, Human

Direct ELISA, 0.1-0.5 ug/ml, Human

Anti-NTAL/LAT2 Antibody Picoband™ (A02496-1) Images

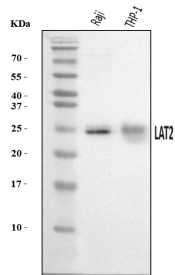


Figure 1. Western blot analysis of NTAL/LAT2 using anti-NTAL/LAT2 antibody (A02496-1).

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 Raji whole cell lysates,

Lane 2: human THP-1 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-NTAL/LAT2 antigen affinity purified polyclonal antibody (Catalog # A02496-1) 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 NTAL/LAT2 at approximately 27 kDa. The expected band size for NTAL/LAT2 is at 27 kDa.

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