

Anti-NTAL Antibody
Catalog # ABO11347**Specification**

Anti-NTAL Antibody - Product Information

Application	WB
Primary Accession	Q9GZY6
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Format	Lyophilized

Description

Rabbit IgG polyclonal antibody for Linker for activation of T-cells family member 2 (LAT2) detection. Tested with WB in Human.

Reconstitution

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-NTAL Antibody - Additional Information

Gene ID 7462

Other Names

Linker for activation of T-cells family member 2, Linker for activation of B-cells, Membrane-associated adapter molecule, Non-T-cell activation linker, Williams-Beuren syndrome chromosomal region 15 protein, Williams-Beuren syndrome chromosomal region 5 protein, LAT2, LAB, NTAL, WBS15, WBSCR15, WBSCR5

Calculated MW

26550 MW KDa

Application Details

Western blot, 0.1-0.5 µg/ml, Human

Subcellular Localization

Cell membrane ; Single-pass type III membrane protein . Present in lipid rafts.

Tissue Specificity

Highly expressed in spleen, peripheral blood lymphocytes, and germinal centers of lymph nodes. Also expressed in placenta, lung, pancreas and small intestine. Present in B- cells, NK cells and monocytes. Absent from T-cells (at protein level). .

Protein Name

Linker for activation of T-cells family member 2

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na₂HPO₄, 0.05mg Thimerosal, 0.05mg NaN₃.

Immunogen

A synthetic peptide corresponding to a sequence at the N-terminus of human NTAL(34-48aa KRSEKIYQQRSLRED).

Purification

Immunogen affinity purified.

Cross Reactivity

No cross reactivity with other proteins

Storage

At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.

Anti-NTAL Antibody - Protein Information

Name LAT2

Synonyms LAB, NTAL, WBS15, WBSCR15, WBSCR5

Function

Involved in FCER1 (high affinity immunoglobulin epsilon receptor)-mediated signaling in mast cells. May also be involved in BCR (B-cell antigen receptor)-mediated signaling in B-cells and FCGR1 (high affinity immunoglobulin gamma Fc receptor I)-mediated signaling in myeloid cells. Couples activation of these receptors and their associated kinases with distal intracellular events through the recruitment of GRB2.

Cellular Location

Cell membrane; Single-pass type III membrane protein Note=Present in lipid rafts

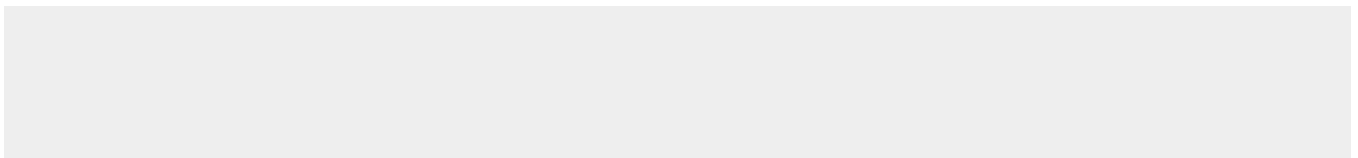
Tissue Location

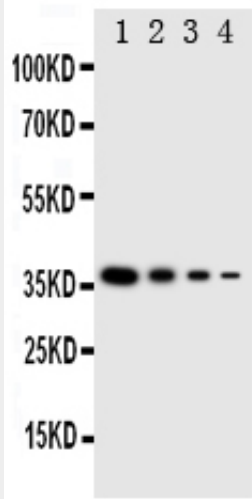
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Anti-NTAL Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-NTAL Antibody - Images



Anti-NTAL antibody, ABO11347, Western blotting Recombinant Protein Detection Source: E.coli derived -recombinant Human LAT2, 37.8KD(162aa tag+ M1-A182) Lane 1: Recombinant Human LAT2 Protein 10ng Lane 2: Recombinant Human LAT2 Protein 5ng Lane 3: Recombinant Human LAT2 Protein 2.5ng Lane 4: Recombinant Human LAT2 Protein 1.25ng

Anti-NTAL Antibody - Background

LAT2(Linker for Activation of T Cells Family, Member 2), also known as LAB or NTAL , is a protein that in humans is encoded by the LAT2 gene. By genomic sequence analysis, Doyle et al.(2000) mapped the WBSR5 gene to chromosome 7q11.23. They noted that the flanking genes are highly conserved between mouse and human. By immunoprecipitation and immunoblot analysis, Brdicka et al.(2002) found that NTAL associated with GRB2, SOS1, and GAB1 after B-cell receptor activation. Janssen et al.(2003) determined that phosphorylation of LAB is likely mediated by SYK upon B-cell receptor stimulation. Binding analysis indicated associations with GRB2, and, indirectly, with PLCG1 and PLCG2.