

Anti-NTAL Antibody

Catalog # ABO11347

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.

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
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). .
Source	Eukaryota
Protein Name	Linker for activation of T-cells family member 2
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Thimerosal, 0.05mg Na ₃ .
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 r° Constitution, 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.

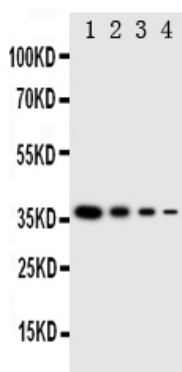
Protein Information

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	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)

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 WBSCR5 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.

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