

Datasheet for ABIN3042936
anti-LAT2 antibody (N-Term)



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1 Image

Overview

Quantity:	100 µg
Target:	LAT2
Binding Specificity:	AA 34-48, N-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This LAT2 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Purpose:	Anti-NTAL/LAT2 Antibody Picoband®
Immunogen:	A synthetic peptide corresponding to a sequence at the N-terminus of human NTAL.
Sequence:	KRSEKIYQQR SLRED
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins
Characteristics:	Anti-NTAL/LAT2 Antibody (ABIN3042936). Tested in WB applications. This antibody reacts with Human. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.

Product Details

Purification: Immunogen affinity purified.

Target Details

Target: LAT2

Alternative Name: LAT2 ([LAT2 Products](#))

Background: Synonyms: 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, HSPC046,

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). .

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, inly, with PLCG1 and PLCG2.

Sequence Similarities: Belongs to the peptidase S1 family. Kallikrein subfamily.

Molecular Weight: 29 kDa

Pathways: [Fc-epsilon Receptor Signaling Pathway](#), [BCR Signaling](#)

Application Details

Application Notes: Western blot, 0.1-0.5 µg/mL, Human

1. Brdicka, T., Imrich, M., Angelisova, P., Brdickova, N., Horvath, O., Spicka, J., Hilgert, I., Luskova, P., Draber, P., Novak, P., Engels, N., Wienands, J., Simeoni, L., Osterreicher, J., Aguado, E., Malissen, M., Schraven, B., Horejsi, V. Non-T cell activation linker (NTAL): a transmembrane adaptor protein involved in immunoreceptor signaling. J. Exp. Med. 1617-1626, 2002. 2. Doyle, J. L., DeSilva, U., Miller, W., Green, E. D. Divergent human and mouse orthologs of a novel gene (WBSCR15/Wbscr15) reside within the genomic interval commonly deleted in Williams

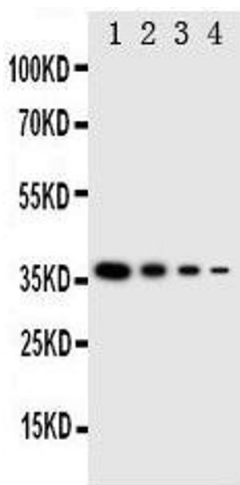
Application Details

	syndrome. Cytogenet. Cell Genet. 90: 285-290, 2000. 3. Janssen, E., Zhu, M., Zhang, W., Koonpaew, S., Zhang, W. LAB: a new membrane-associated adaptor molecule in B cell activation. Nature Immun. 4: 117-123, 2003.
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl and 0.2 mg Na2HPO4.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C,-20 °C
Storage Comment:	Store 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 freeze-thaw cycles.
Expiry Date:	12 months

Images



Western Blotting

Image 1. Lane 4: Recombinant Human LAT2 Protein 1.25ng