


Product datasheet

Anti-BLNK antibody ab73706

★★★★★ [1 Abreviews](#) [2 Images](#)

Overview

Product name	Anti-BLNK antibody
Description	Rabbit polyclonal to BLNK
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P
Species reactivity	Reacts with: Human Predicted to work with: Mouse 
Immunogen	A synthesized non-phosphopeptide derived from human BLNK around the phosphorylation site of tyrosine 96.
Positive control	Human tonsil tissue sections and extracts from 293 cells treated with etoposide.
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	pH: 7.40 Preservative: 0.02% Sodium azide Constituents: 50% Glycerol (glycerin, glycerine), 0.87% Sodium chloride, PBS
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab73706 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB	★★★★★ (1)	1/500 - 1/1000. Detects a band of approximately 51 kDa (predicted molecular weight: 51 kDa).
IHC-P		Use at an assay dependent concentration.

Target

Function

Functions as a central linker protein that bridges kinases associated with the B-cell receptor (BCR) with a multitude of signaling pathways, regulating biological outcomes of B-cell function and development. Plays a role in the activation of ERK/EPHB2, MAP kinase p38 and JNK. Modulates AP1 activation. Important for the activation of NF-kappa-B and NFAT. Plays an important role in BCR-mediated PLCG1 and PLCG2 activation and Ca(2+) mobilization and is required for trafficking of the BCR to late endosomes. However, does not seem to be required for pre-BCR-mediated activation of MAP kinase and phosphatidylinositol 3 (PI3) kinase signaling. May be required for the RAC1-JNK pathway. Plays a critical role in orchestrating the pro-B cell to pre-B cell transition (By similarity). Plays an important role in BCR-induced B-cell apoptosis.

Tissue specificity

Expressed in B-cell lineage and fibroblast cell lines (at protein level). Highest levels of expression in the spleen, with lower levels in the liver, kidney, pancreas, small intestines and colon.

Involvement in disease

Defects in BLNK are the cause of agammaglobulinemia type 4 (AGM4) [MIM:613502]. It is a primary immunodeficiency characterized by profoundly low or absent serum antibodies and low or absent circulating B cells due to an early block of B-cell development. Affected individuals develop severe infections in the first years of life.

Sequence similarities

Contains 1 SH2 domain.

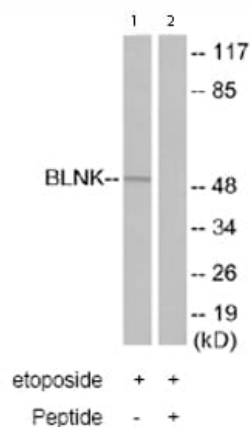
Post-translational modifications

Following BCR activation, phosphorylated on tyrosine residues by SYK and LYN. When phosphorylated, serves as a scaffold to assemble downstream targets of antigen activation, including PLCG1, VAV1, GRB2 and NCK1. Phosphorylation of Tyr-84, Tyr-178 and Tyr-189 facilitates PLCG1 binding. Phosphorylation of Tyr-96 facilitates BTK binding. Phosphorylation of Tyr-72 facilitates VAV1 and NCK1 binding. Phosphorylation is required for both Ca(2+) and MAPK signaling pathways.

Cellular localization

Cytoplasm. Cell membrane. BCR activation results in the translocation to membrane fraction.

Images



Western blot - Anti-BLNK antibody (ab73706)

All lanes : Anti-BLNK antibody (ab73706) at 1/500 dilution

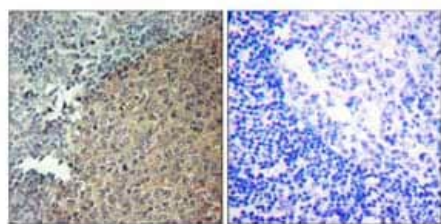
Lane 1 : Extracts from 293 cells, treated with etoposide (25μM, 24hours).

Lane 2 : Extracts from 293 cells, treated with etoposide (25μM, 24hours) plus 5μg immunizing peptide.

Lysates/proteins at 5 μg per lane.

Predicted band size: 51 kDa

Observed band size: 51 kDa



Peptide

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-BLNK antibody (ab73706)

Immunohistochemistry analysis of paraffin-embedded human tonsil tissue using ab73706 at a 1:50 dilution.

Left image un-treated.

Right image treated with immunizing peptide.

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