



yBLNK (phospho Tyr96) Polyclonal Antibod

Catalog No	YP-Ab-13851
Isotype	IgG
Reactivity	Human;Mouse;Monkey
Applications	WB;IHC;IF;ELISA
Gene Name	BLNK
Immunogen	The antiserum was produced against synthesized peptide derived from human BLNK around the phosphorylation site of Tyr96. AA range:62-111
Specificity	Phospho-BLNK (Y96) Polyclonal Antibody detects endogenous levels of BLNK protein only when phosphorylated at Y96.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB: 1/500 - 1/2000. IHC: 1/100 - 1/300. ELISA: 1/20000.. IF 1:50-200
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	AGM4;B cell adapter containing SH2 domain protein;B cell adapter containing Src homology 2 domain protein;B cell adaptor containing SH2 domain;B cell linker;B cell linker protein;B cell-specific adaptor protein;B-cell activation;B-cell adapter containing a SH2 domain protein;B-cell adapter containing a Src homology 2 domain protein;B-cell linker protein;BASH;Bca;BLNK;BLNK s; BLNK_HUMAN;Cytoplasmic adapter protein;Ly 57;Ly57;Lymphocyte antigen 57; Lyw 57;Lyw57;MGC11151;SH2 domain-containing leukocyte protein;65-KD;SLP 65;SLP-65;SLP65;Src homology [SH2] domain-containing leukocyte protein of 65 kD;Src homology 2 domain containing leukocyte protein of 65 kDa;Src homology 2 domain-containing leukocyte protein of 65 kDa
Observed Band	50kD
Calculated Molecular Weight	50kD
Cell Pathway	Cytoplasm . Cell membrane . BCR activation results in the translocation to membrane fraction.
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.



Function

disease: Defects in BLNK are the cause of hypoglobulinemia and absent B-cells [MIM:604515]. This is a developmental blockage at the pro- to pre-B-cell transition., disease: In 6 of 34 childhood pre-B acute lymphoblastic leukemia (ALL) samples that were tested showed a complete loss or drastic reduction of BLNK expression., 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 ac

Background

This gene encodes a cytoplasmic linker or adaptor protein that plays a critical role in B cell development. This protein bridges B cell receptor-associated kinase activation with downstream signaling pathways, thereby affecting various biological functions. The phosphorylation of five tyrosine residues is necessary for this protein to nucleate distinct signaling effectors following B cell receptor activation. Mutations in this gene cause hypoglobulinemia and absent B cells, a disease in which the pro- to pre-B-cell transition is developmentally blocked. Deficiency in this protein has also been shown in some cases of pre-B acute lymphoblastic leukemia. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, May 2012],

matters needing attention

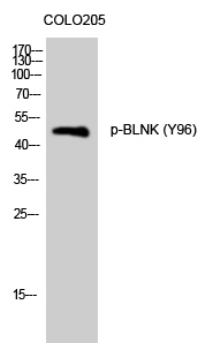
Avoid repeated freezing and thawing!

Usage suggestions

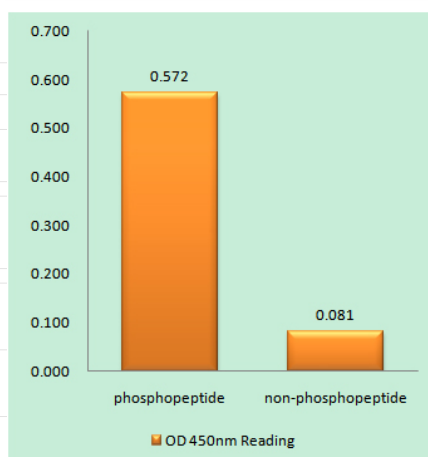
This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



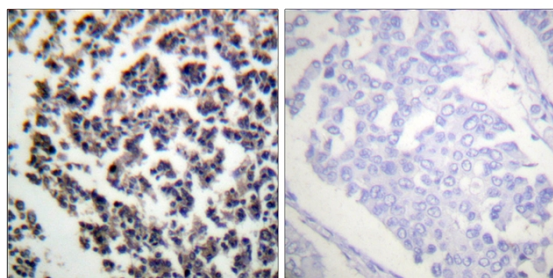
Products Images



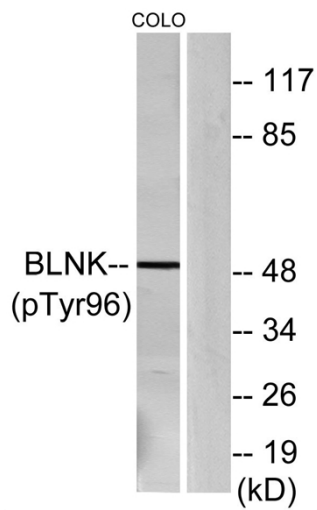
Western Blot analysis of COLO205 cells using Phospho-BLNK (Y96) Polyclonal Antibody



Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using BLNK (Phospho-Tyr96) Antibody



Immunohistochemistry analysis of paraffin-embedded human lymph node, using BLNK (Phospho-Tyr96) Antibody. The picture on the right is blocked with the phosphopeptide.



Western blot analysis of lysates from COLO205 cells, using BLNK (Phospho-Tyr96) Antibody. The lane on the right is blocked with the phospho peptide.