

Recombinant Human BLNK protein ab104120

1 Image

Description	
Product name	Recombinant Human BLNK protein
Purity	> 90 % SDS-PAGE. Purified by using anion-exchange chromatography (DEAE sepharose resin) and gel-filtration chromatography (Sephacryl S-200) with 20mM Tris pH 7.5, 2mM EDTA.
Expression system	Escherichia coli
Accession	<u>Q8WV28</u>
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Sequence	MGSSHHHHHH SSGLVPRGSH MDKLNKITVP ASQKLRLQLQK MVHDIKNNEG GIMNKIKKLK VKAPPSVPRR DYASESPADE EQQWSDDFDS DYENPDEHSD SEMYVMPAEE NADDSYEPPP VEQETRPVHP ALPFARGEYI DNRSSQRHSP PFSKTLPSKP SWPSEKARLT STLPALTALQ KPQVPPKPKG LLEDEADYVV PVEDNDENYI HPTESSPPPP EKAPMVNRST KPNSSTPASP PGTASGRNSG AWETKSPPPA APSPLPRAGK KPTTPLKTPP VASQQNASSV CEEKPIPAER HRGSSHRQEA VQSPVFPPAQ KQIHQKPIPL PRFTEGGNPT VDGPLPSFSS NSTISEQEAG VLCKPWWYAGA CDRKSAEEAL HRSNKDGSFL IRKSSGHDSK QPYTLVVFFN KRVYNIPVRF IEATKQYALG RKKNGEEYFG SVAEIRNHQ HSPLVLIDSQ NNTKDSTRLK YAVKVS
Predicted molecular weight	53 kDa including tags
Amino acids	1 to 456
Tags	His tag N-Terminus

Specifications

Our **Abpromise guarantee** covers the use of **ab104120** in the following tested applications.

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

Applications	SDS-PAGE
	Mass Spectrometry
Mass spectrometry	MALDI-TOF
Form	Liquid

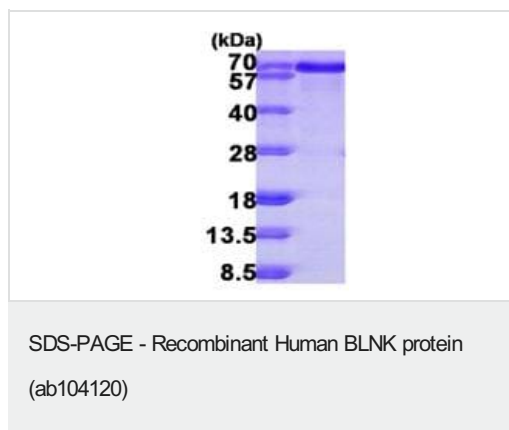
Preparation and Storage

Stability and Storage	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle. pH: 8.00 Constituents: 0.00174% PMSF, 0.0154% DTT, 0.316% Tris HCl, 20% Glycerol (glycerin, glycerine), 0.58% Sodium chloride
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General Info

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



15% SDS-PAGE analysis of ab104120 (3 µg).

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